

20150955-030402

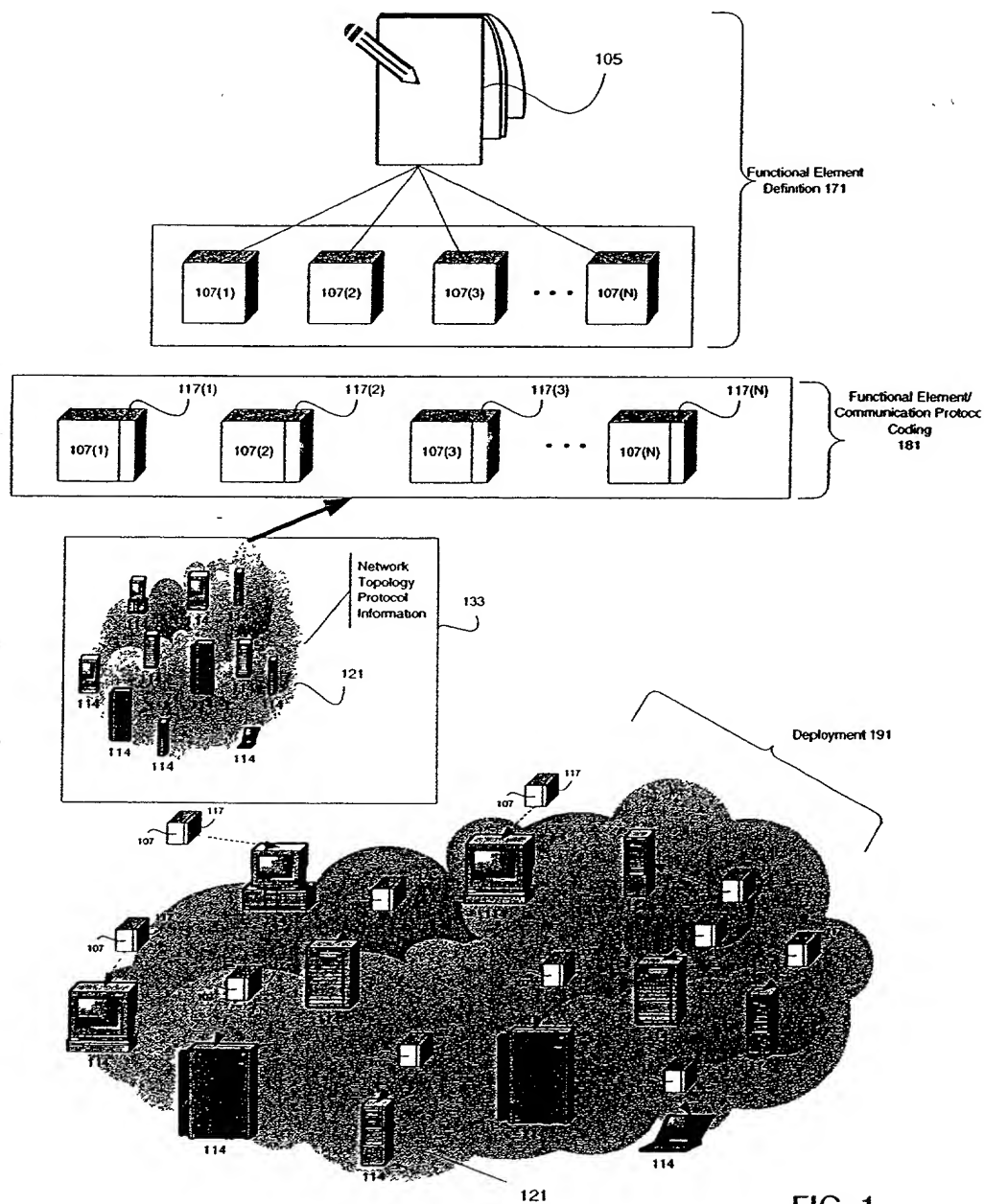


FIG. 1

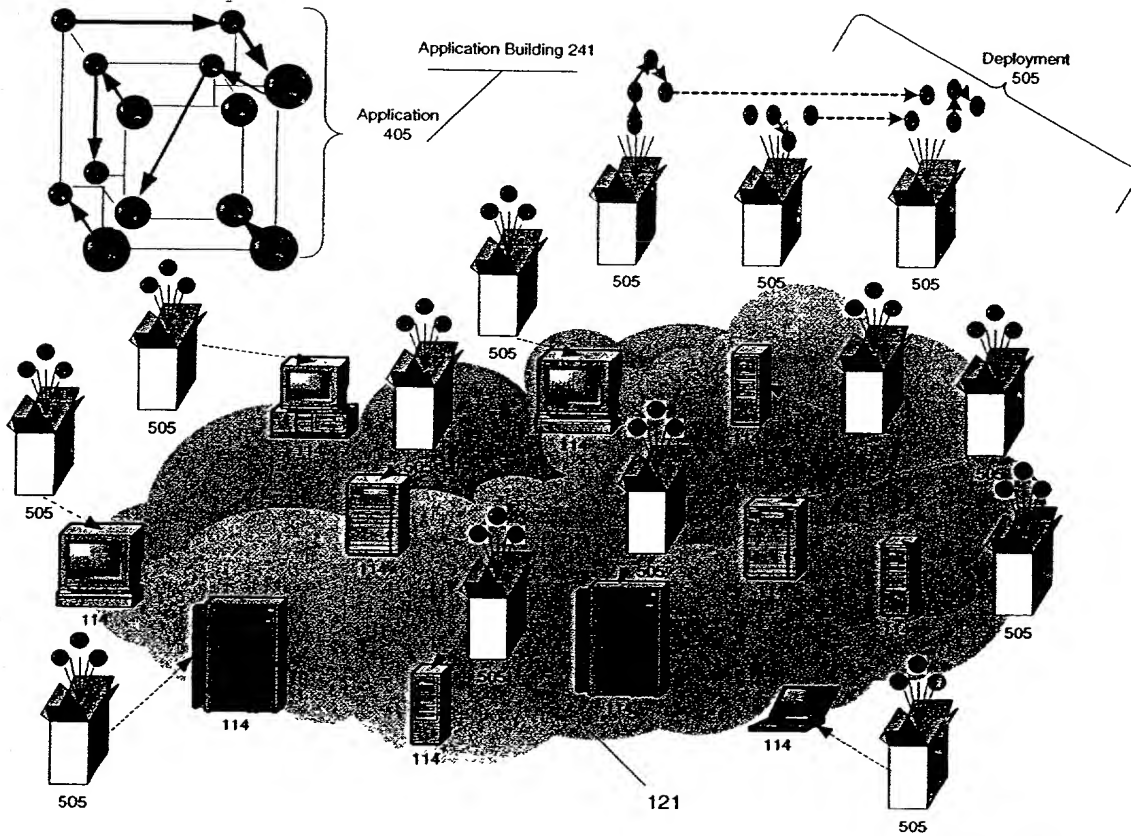
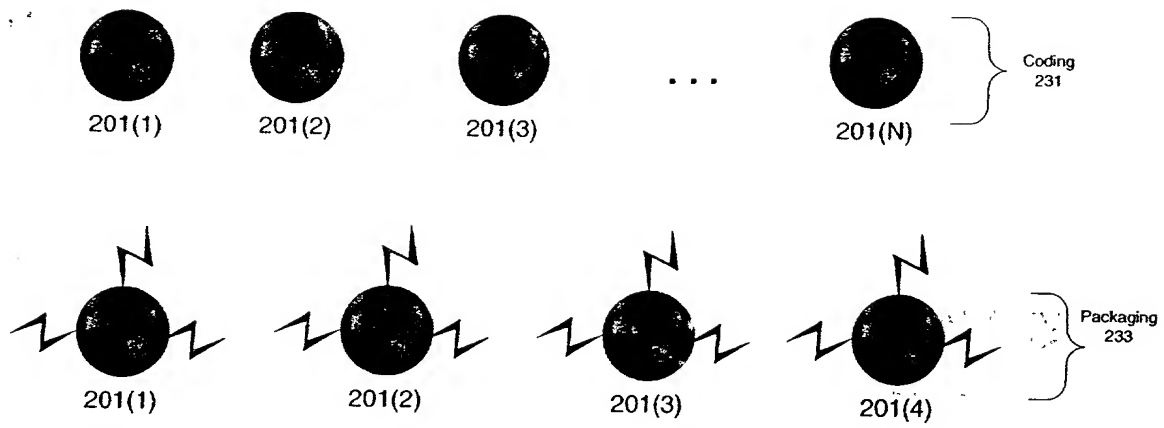


FIG. 2a

204020 99657001

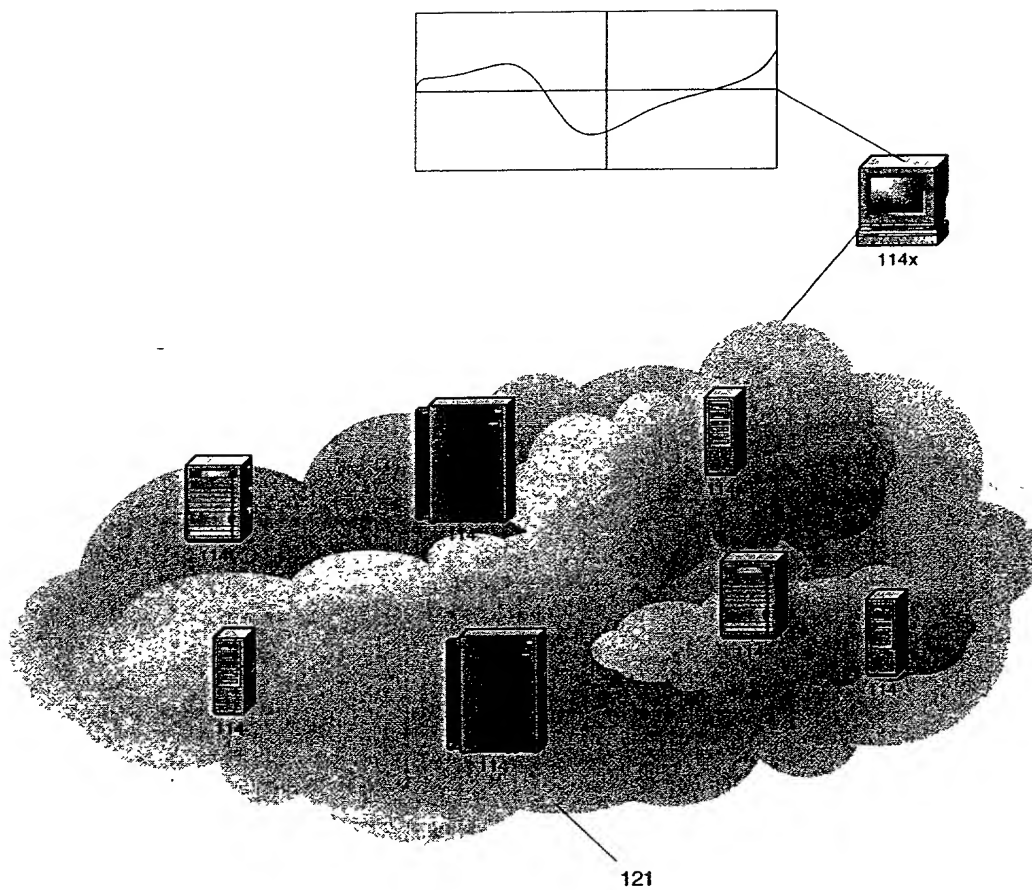


FIG. 2b

201506-020402

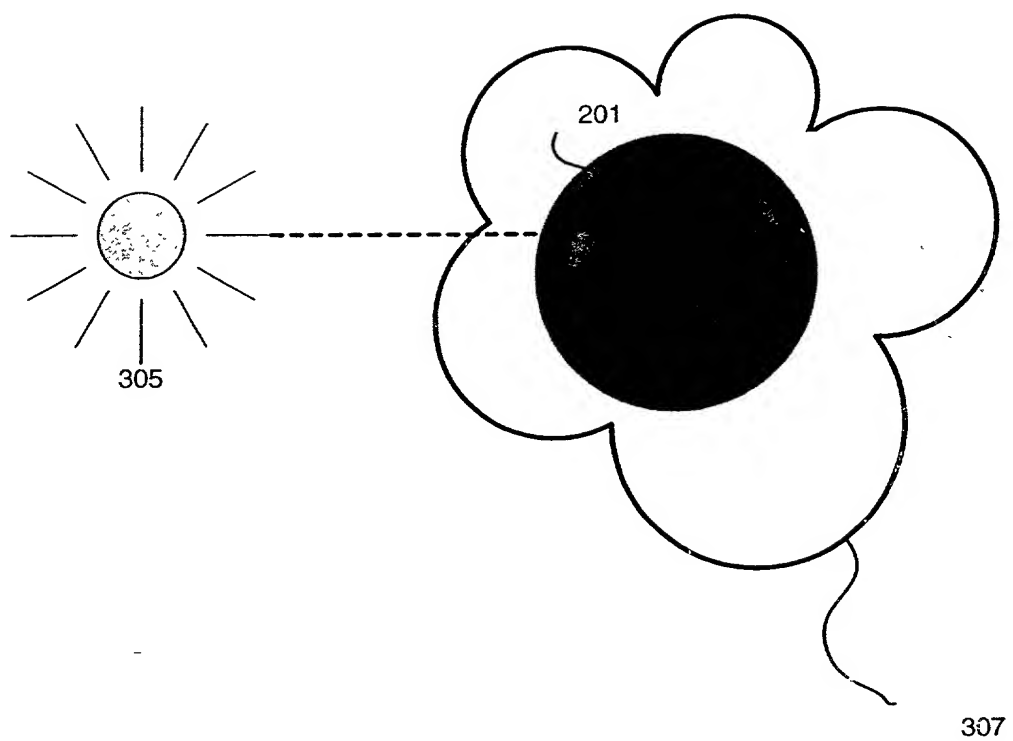


FIG. 3a

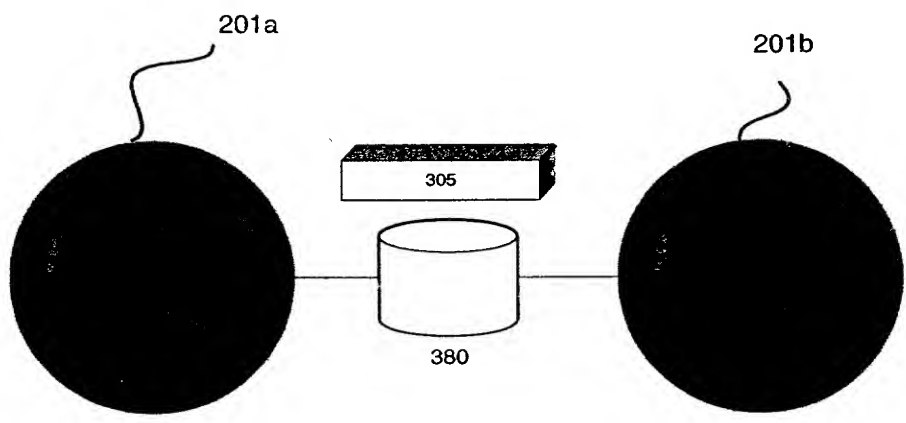


FIG. 3b

204020" 9965T00T

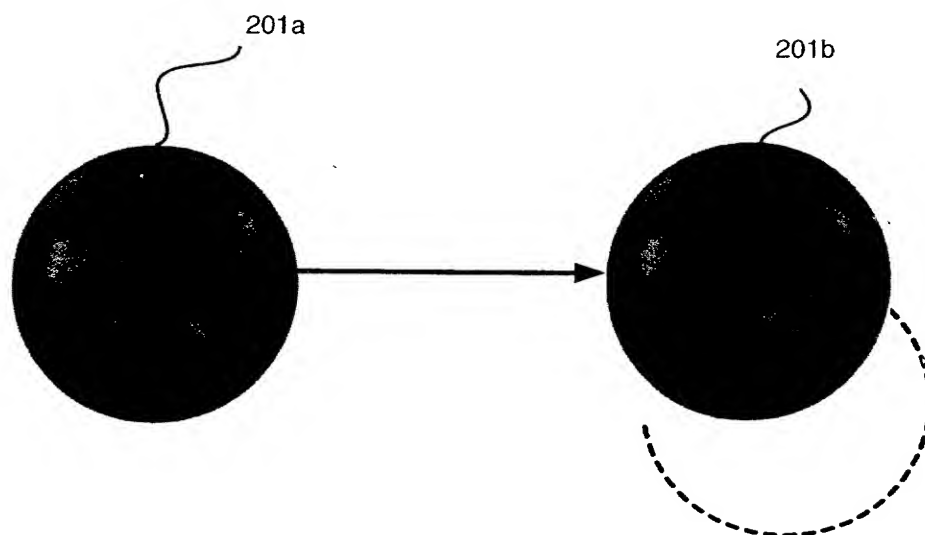


FIG. 3c

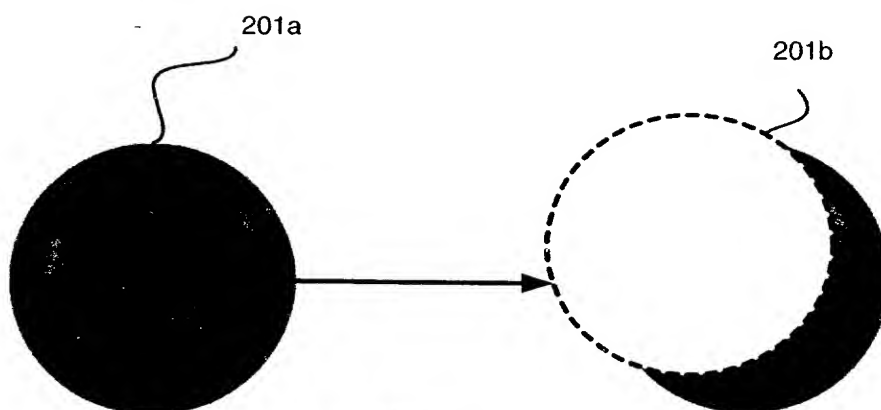


FIG. 3d

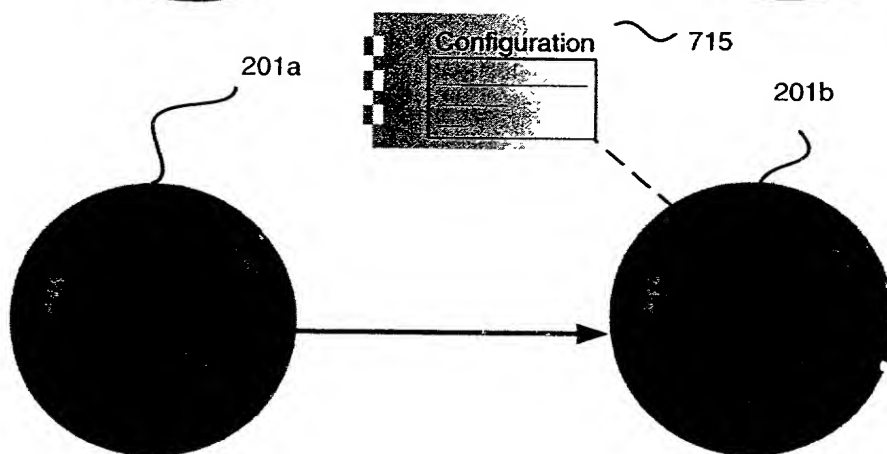


FIG. 3e

204000-9965007

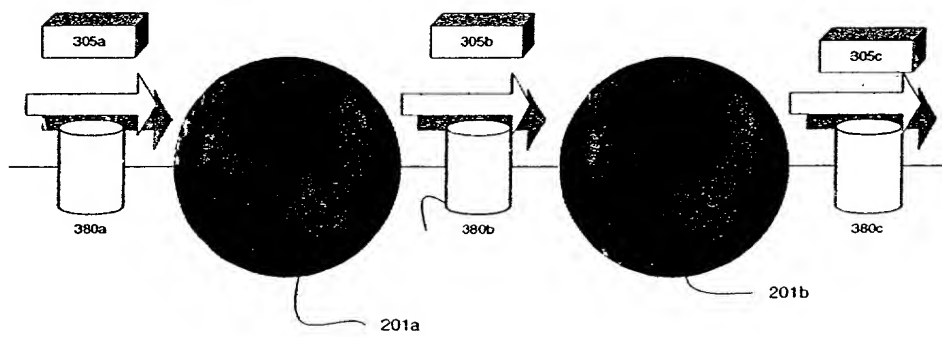


FIG. 3f

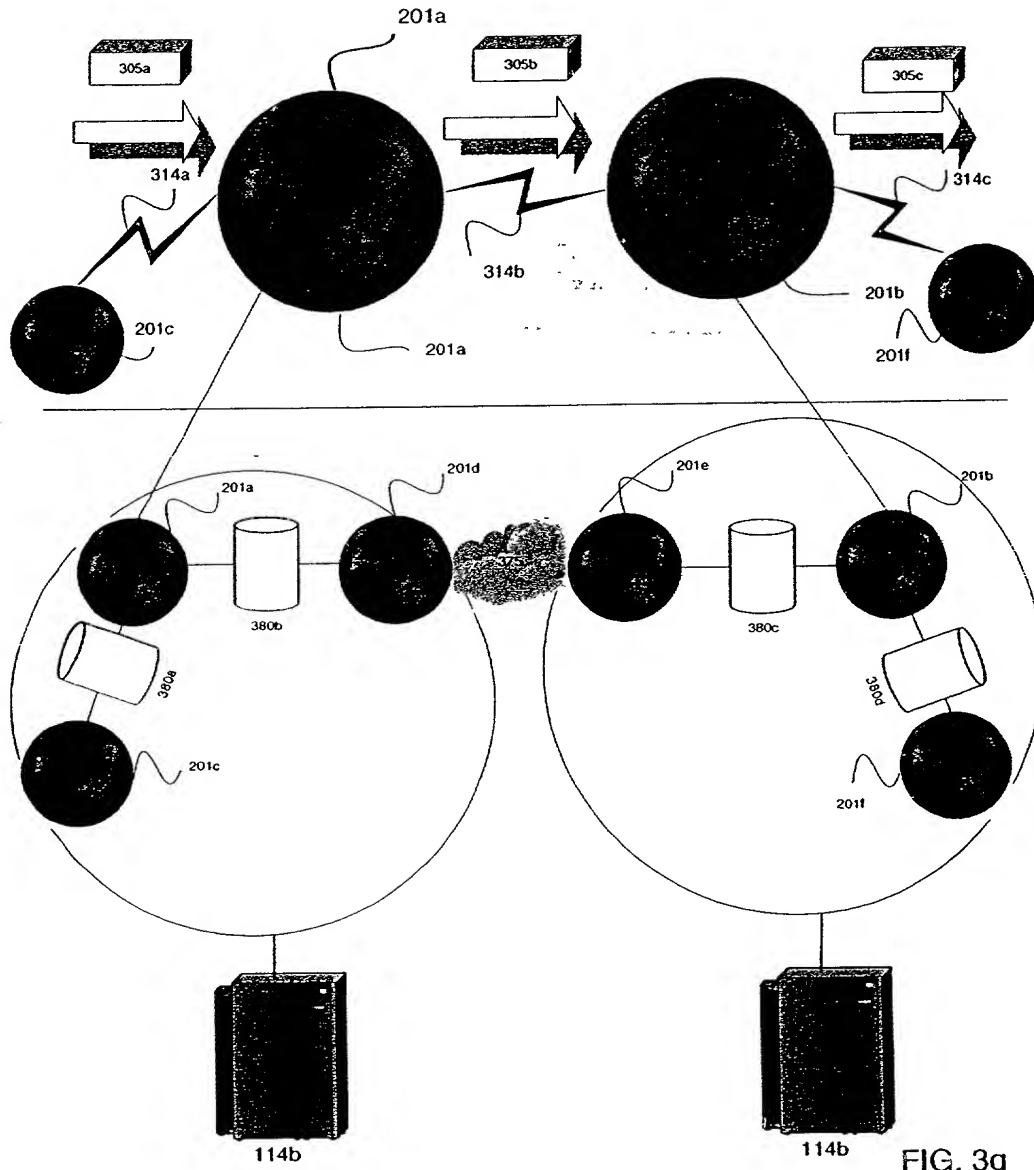


FIG. 3g

2040C9-9955T001

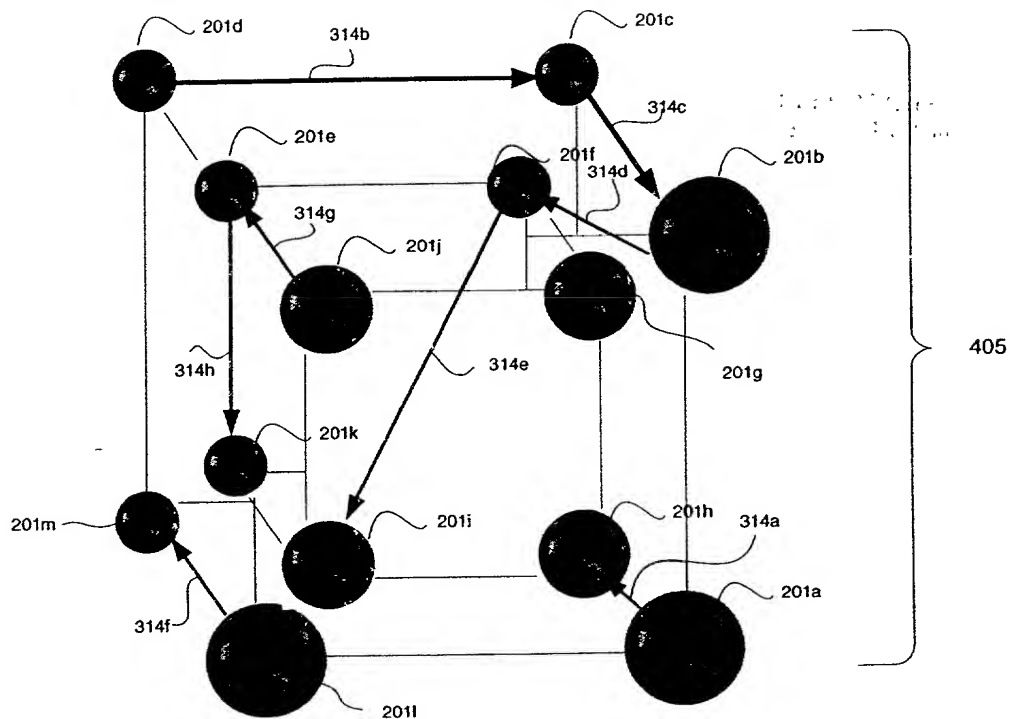


FIG. 4a

2010-05-03 09:56:00

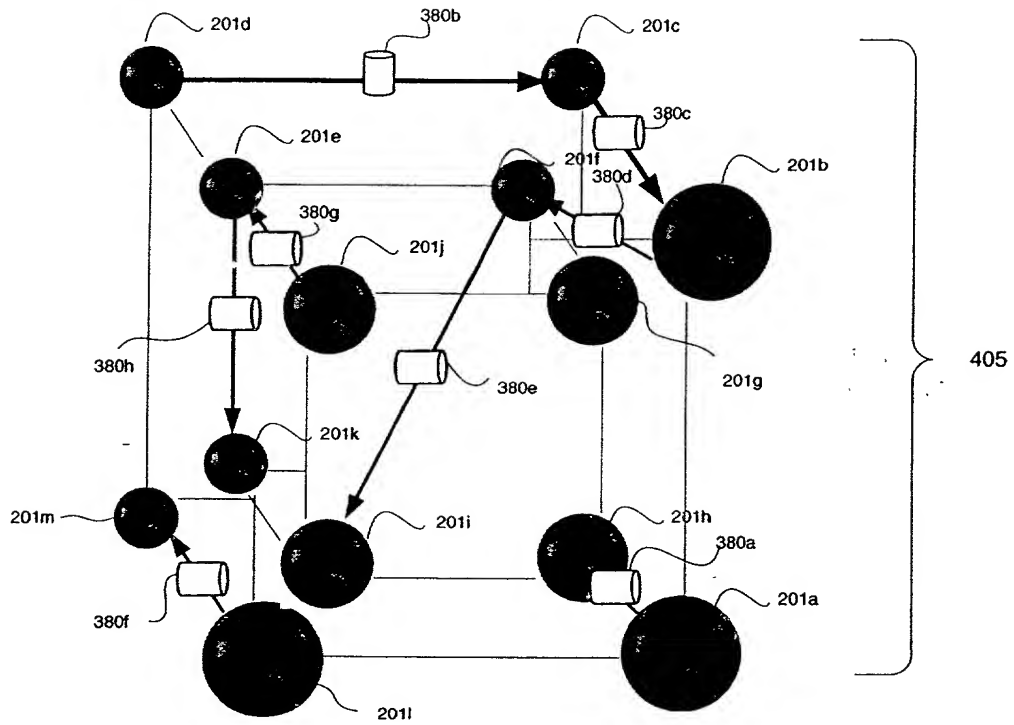


FIG. 4b

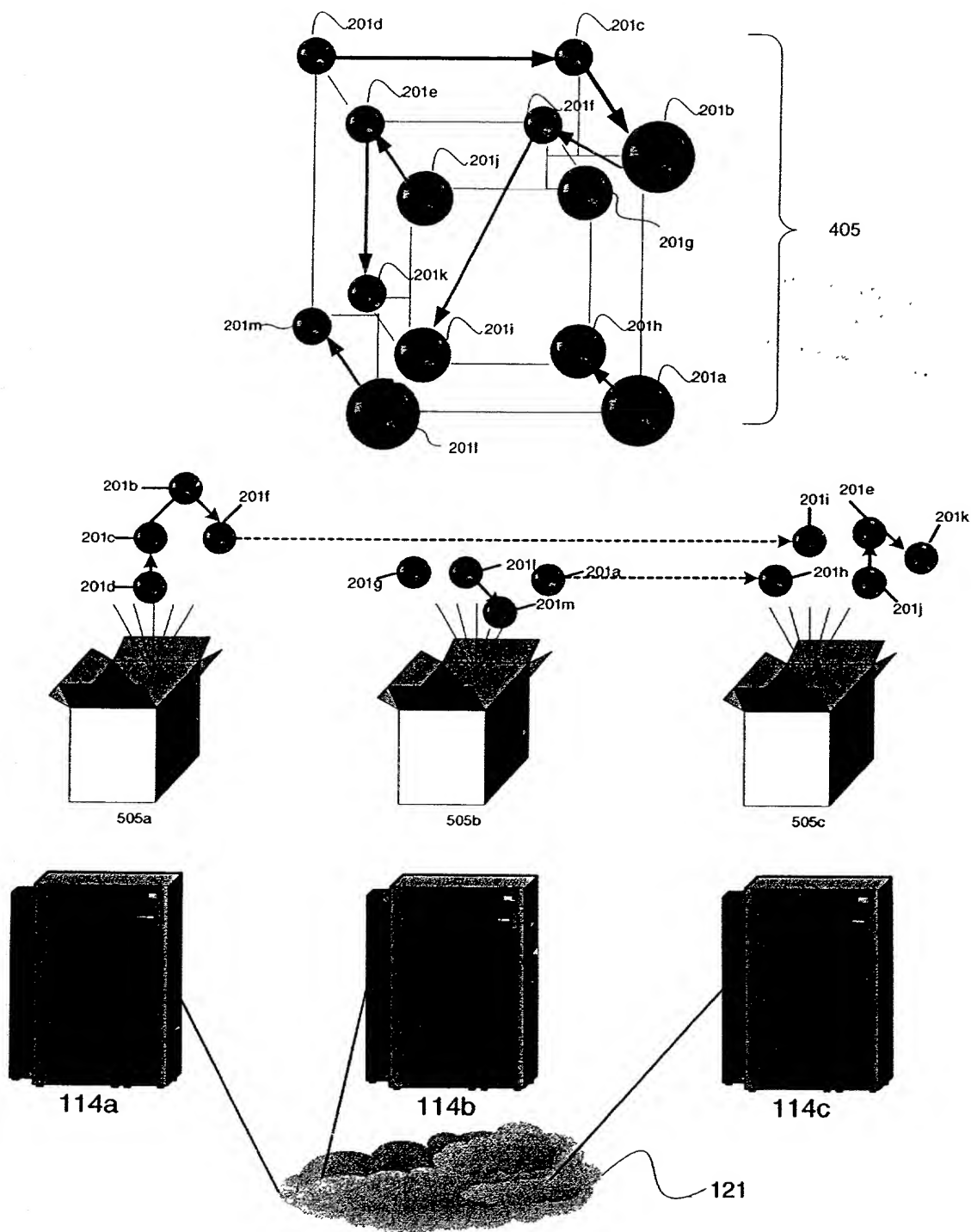


FIG. 5b

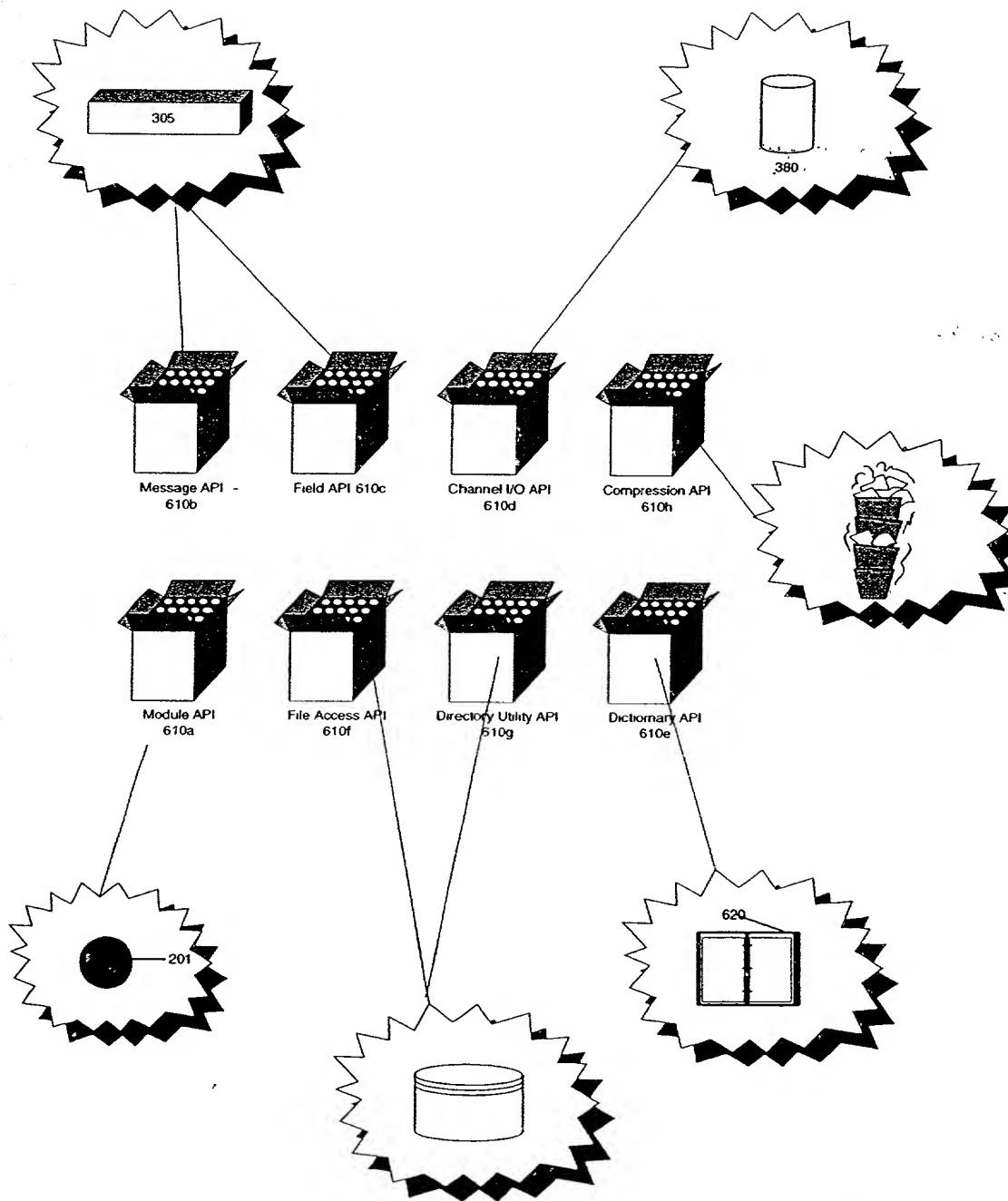


FIG. 6

204050-9965001

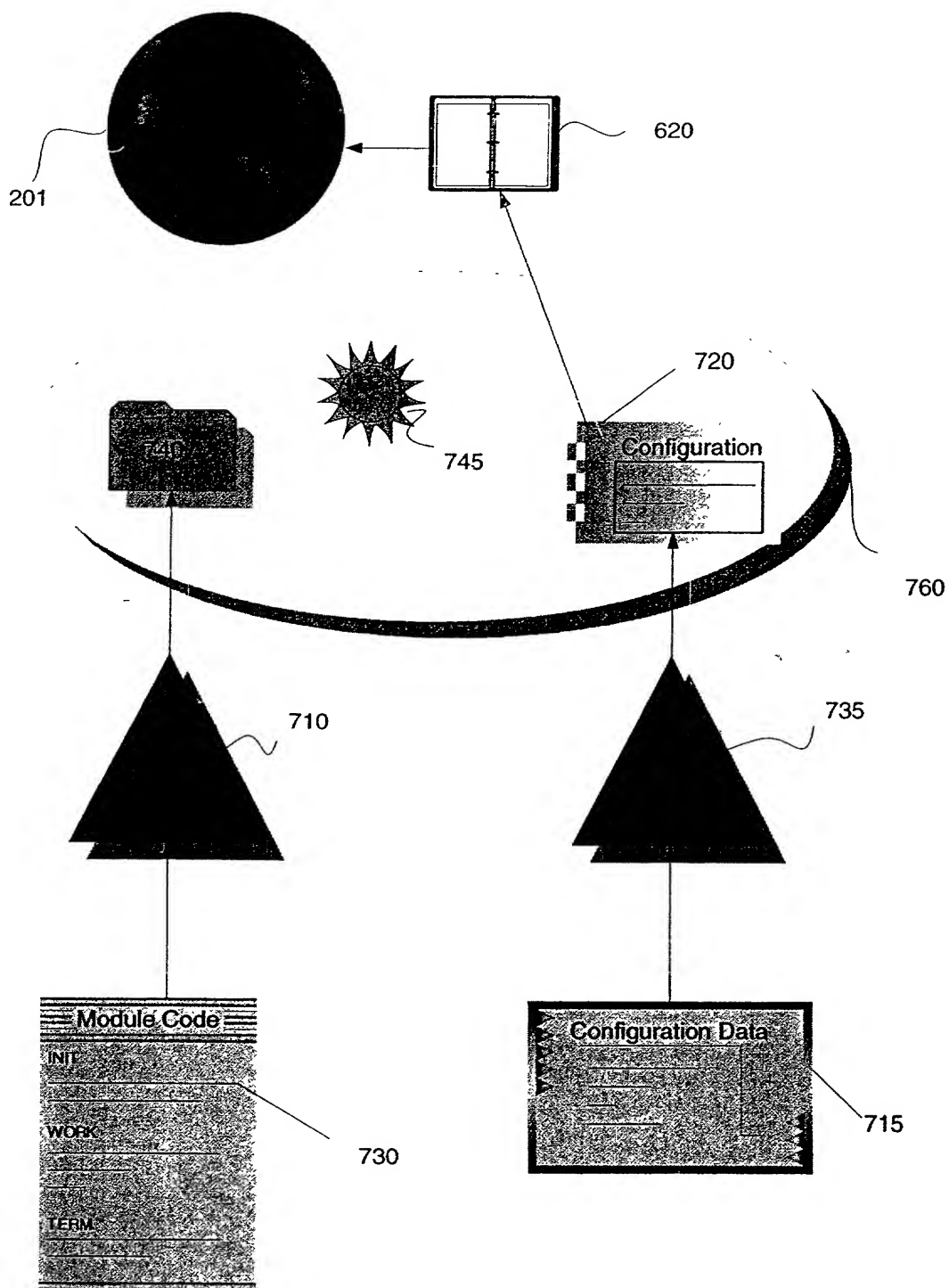


FIG. 7

2047050.9965T00T

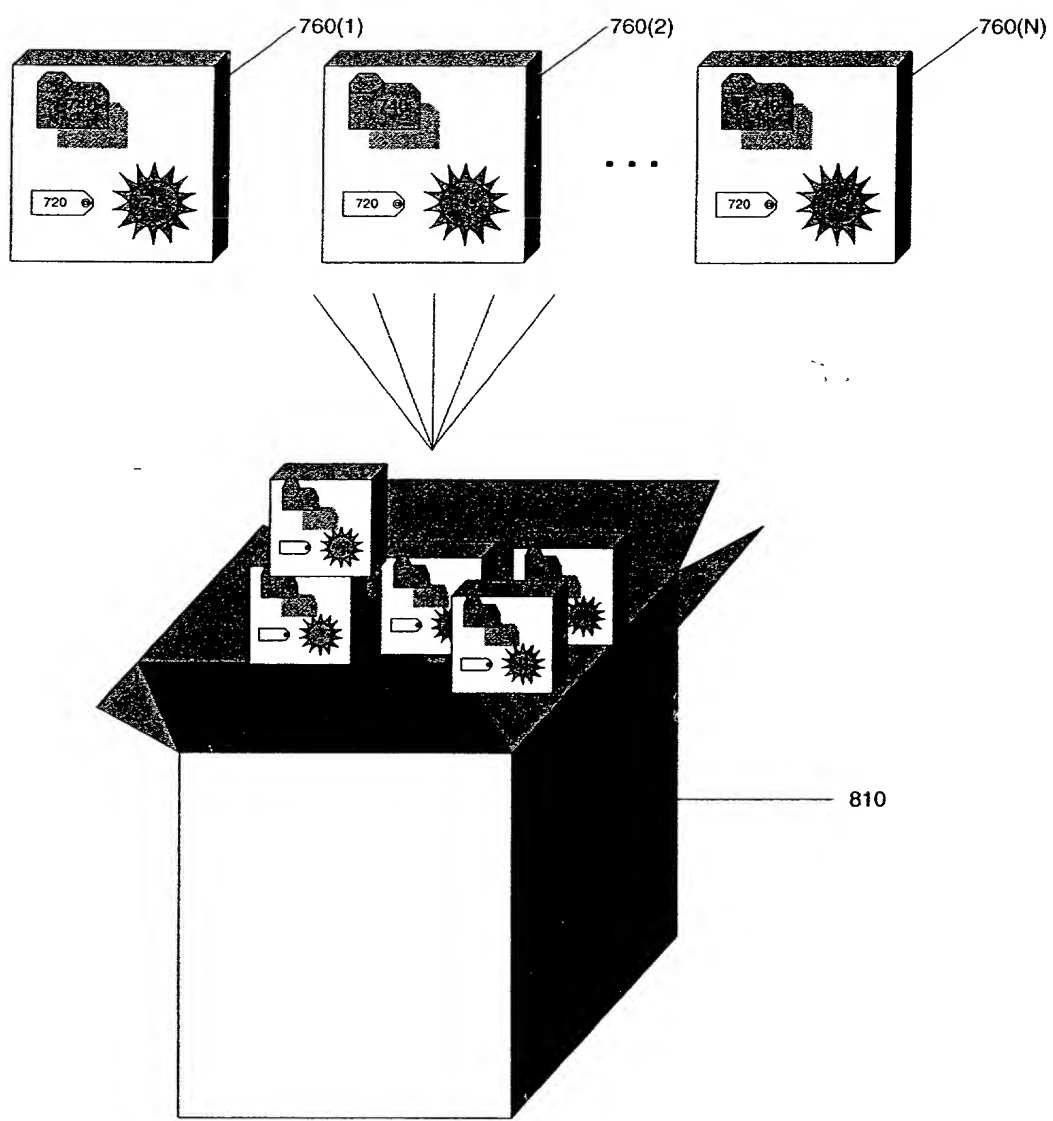


FIG. 8

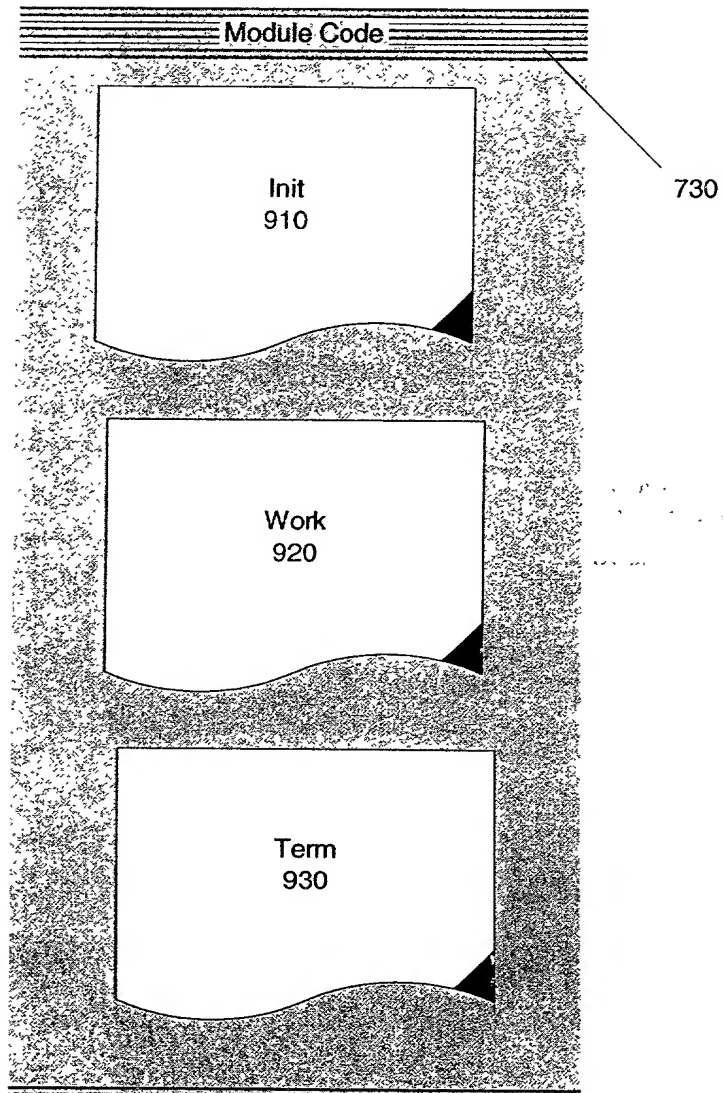


FIG. 9a

2041020 9265T00T

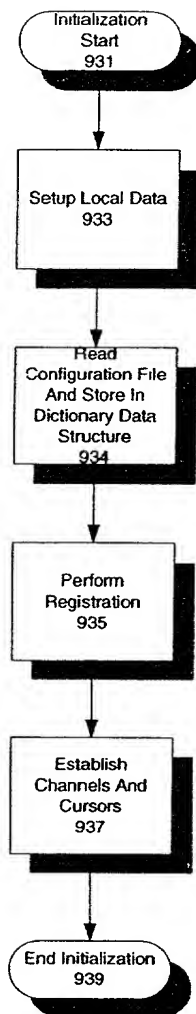


FIG. 9b

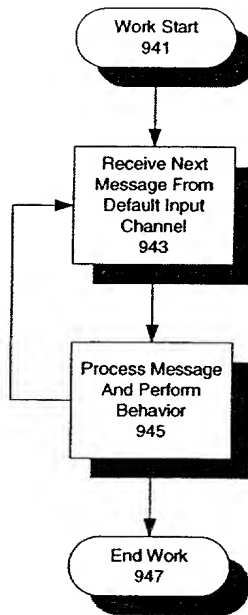


FIG. 9c

20100509 0955:00

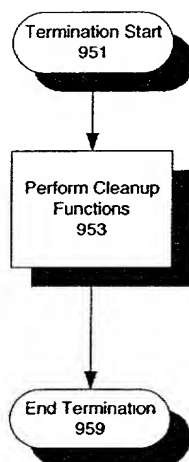


FIG. 9d

305

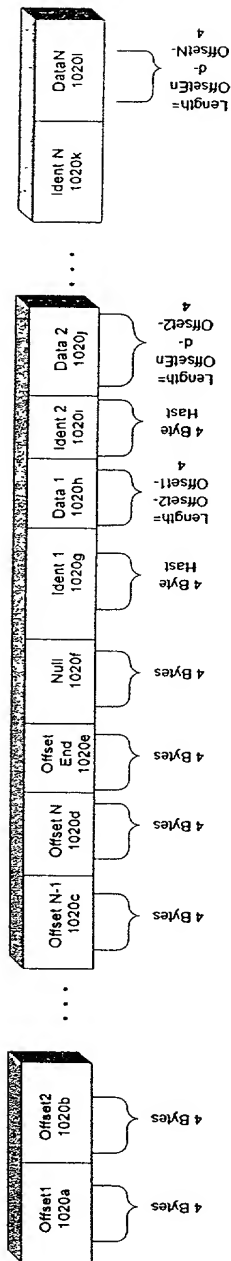
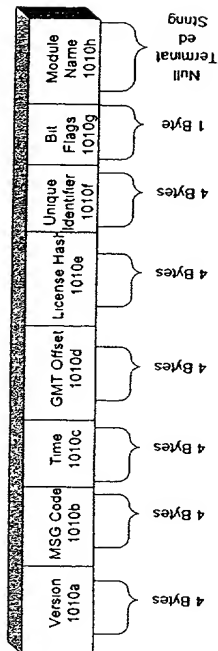
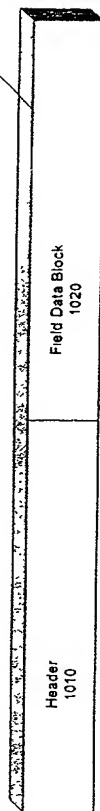
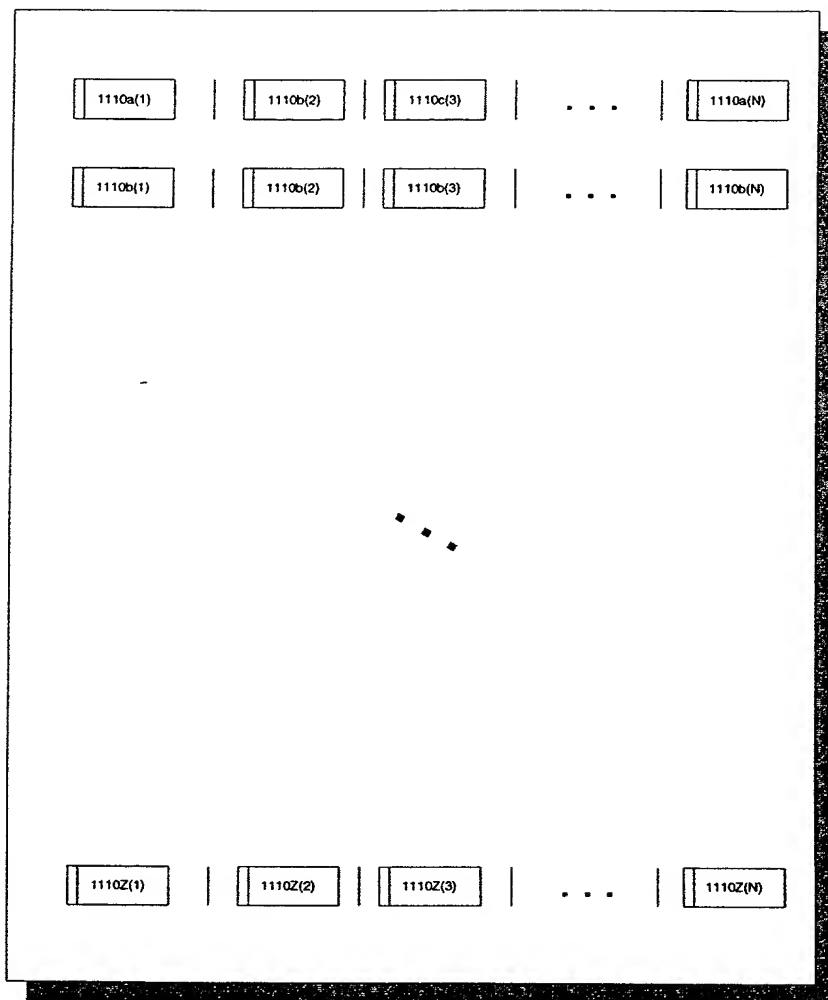


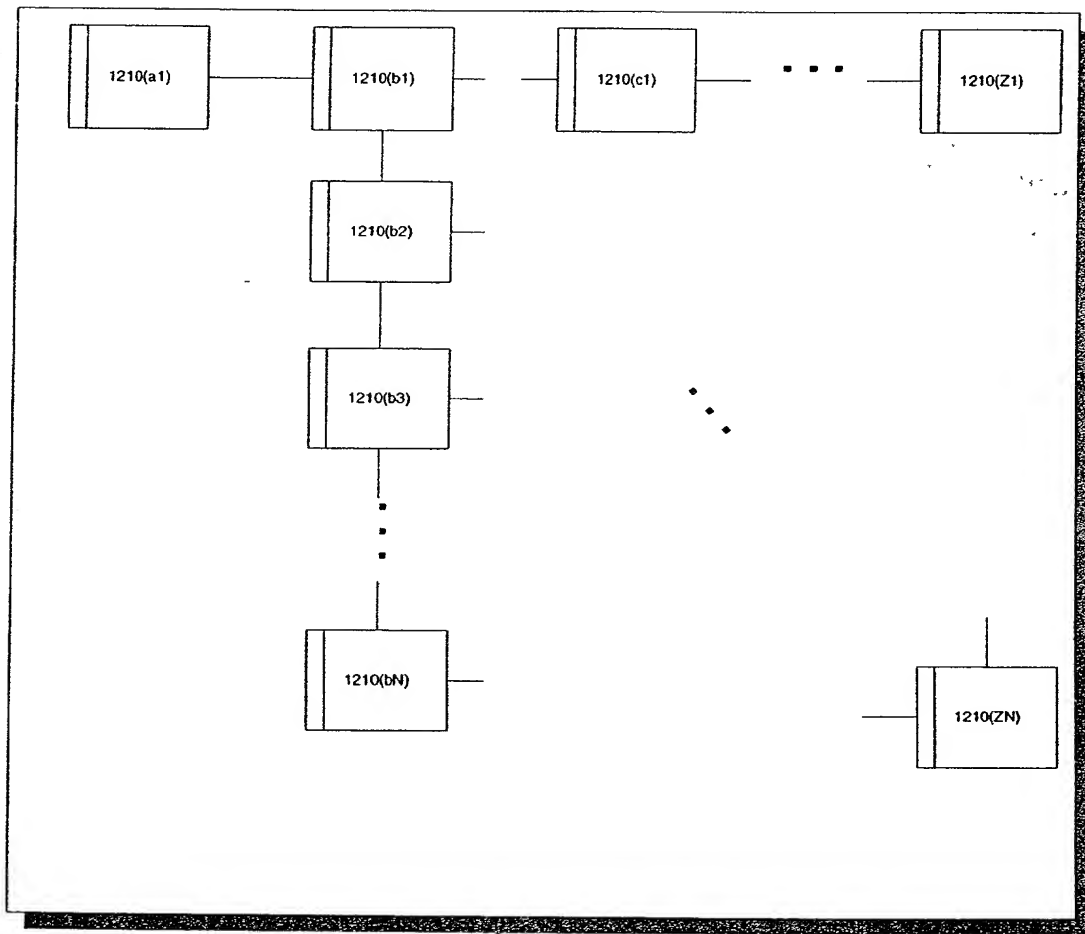
FIG. 10



720

FIG. 11

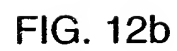
204260 9965T00T



620

FIG. 12a

620



204020" 9955T00T

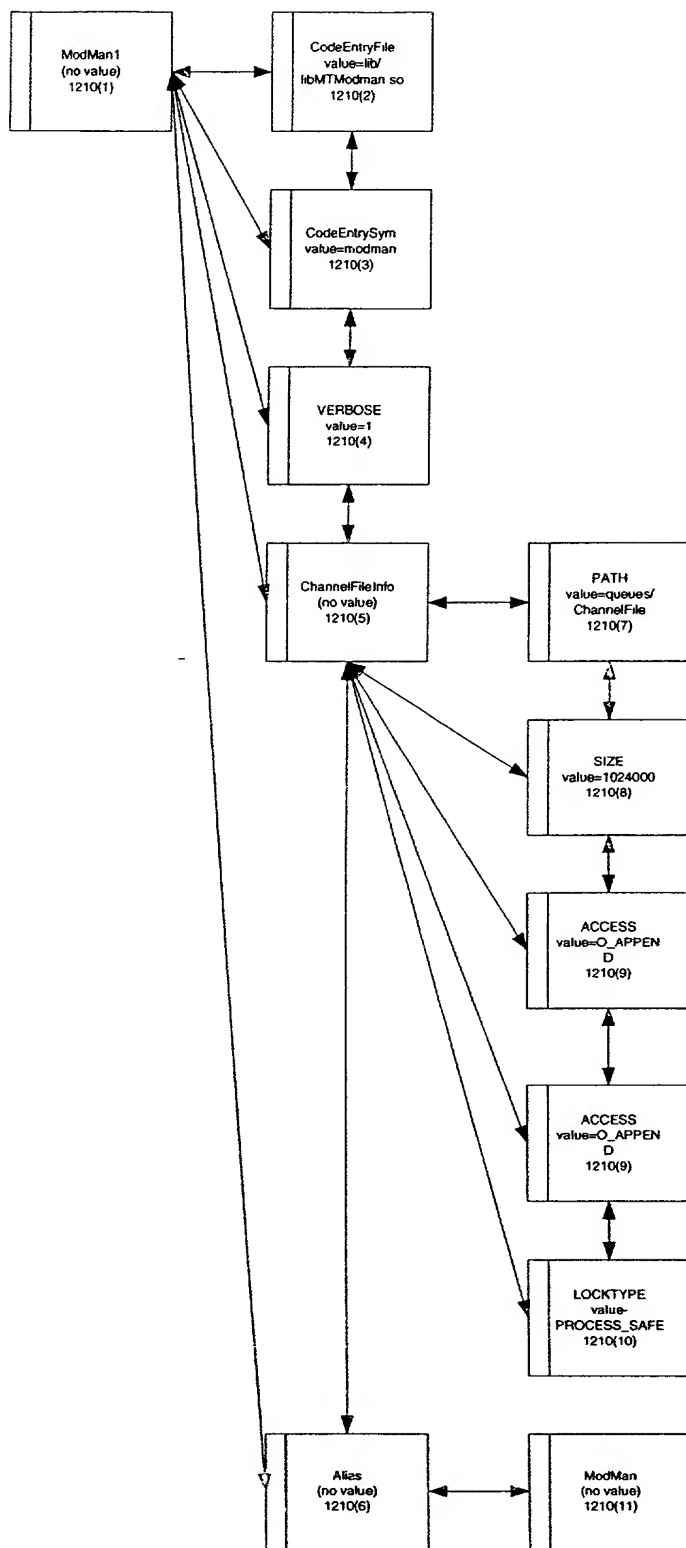


FIG. 12C

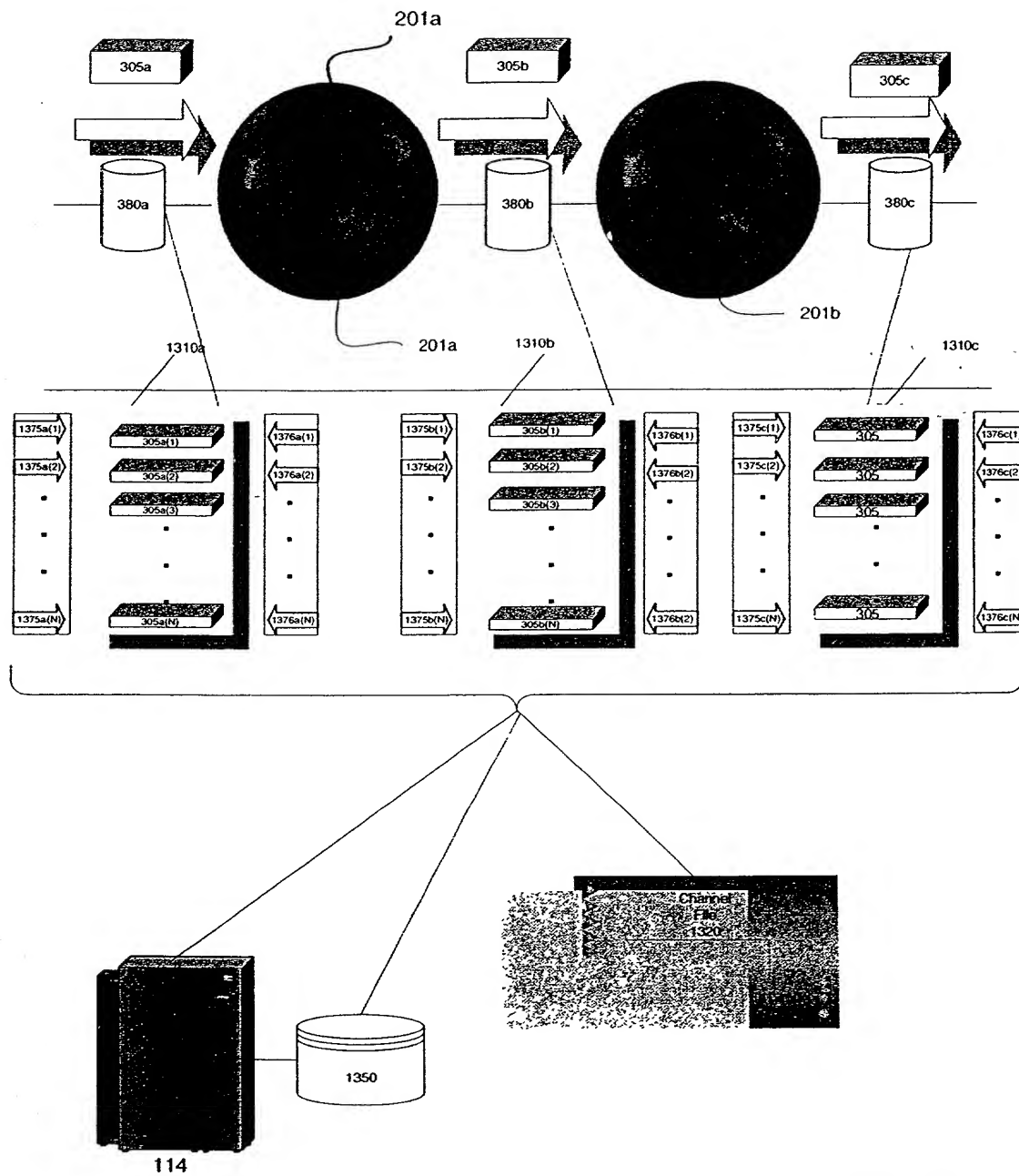


FIG. 13a

2040E0-030402

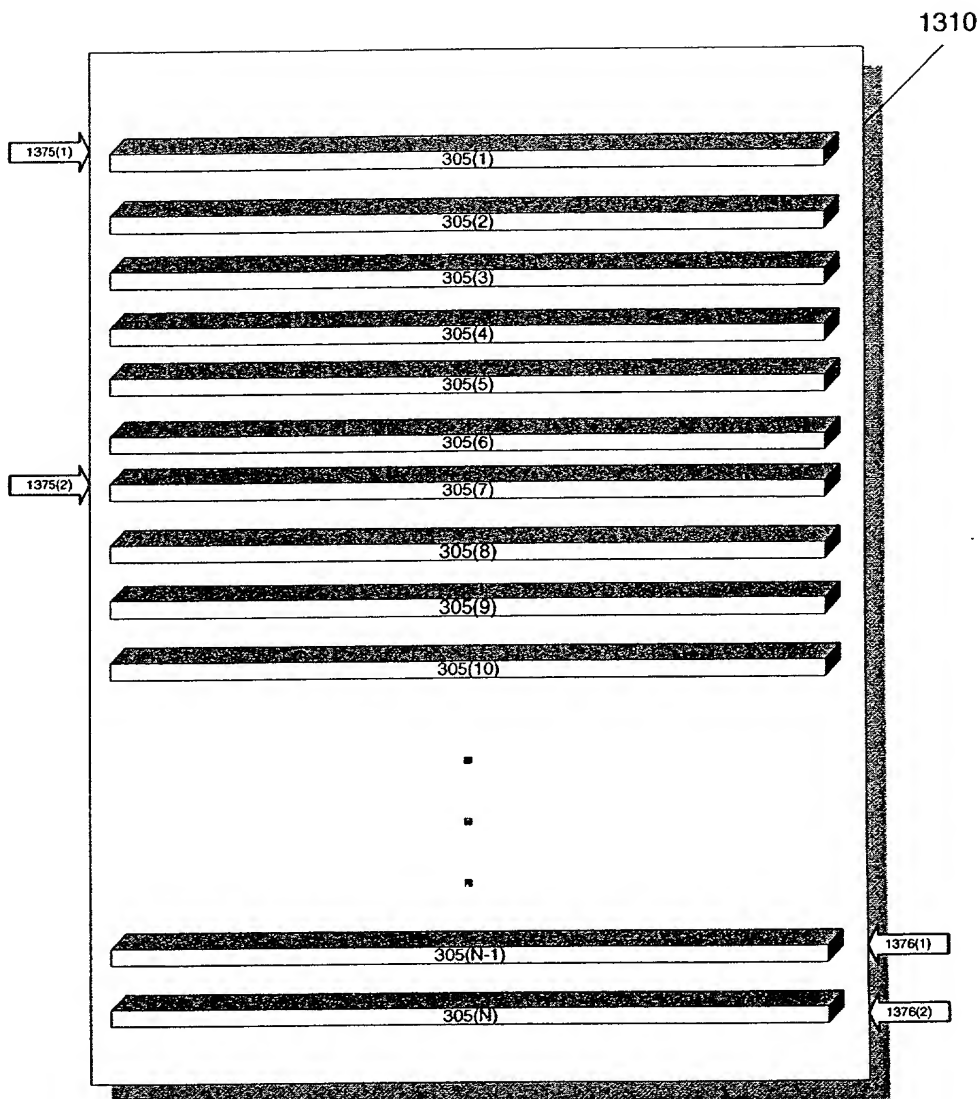


FIG. 13b

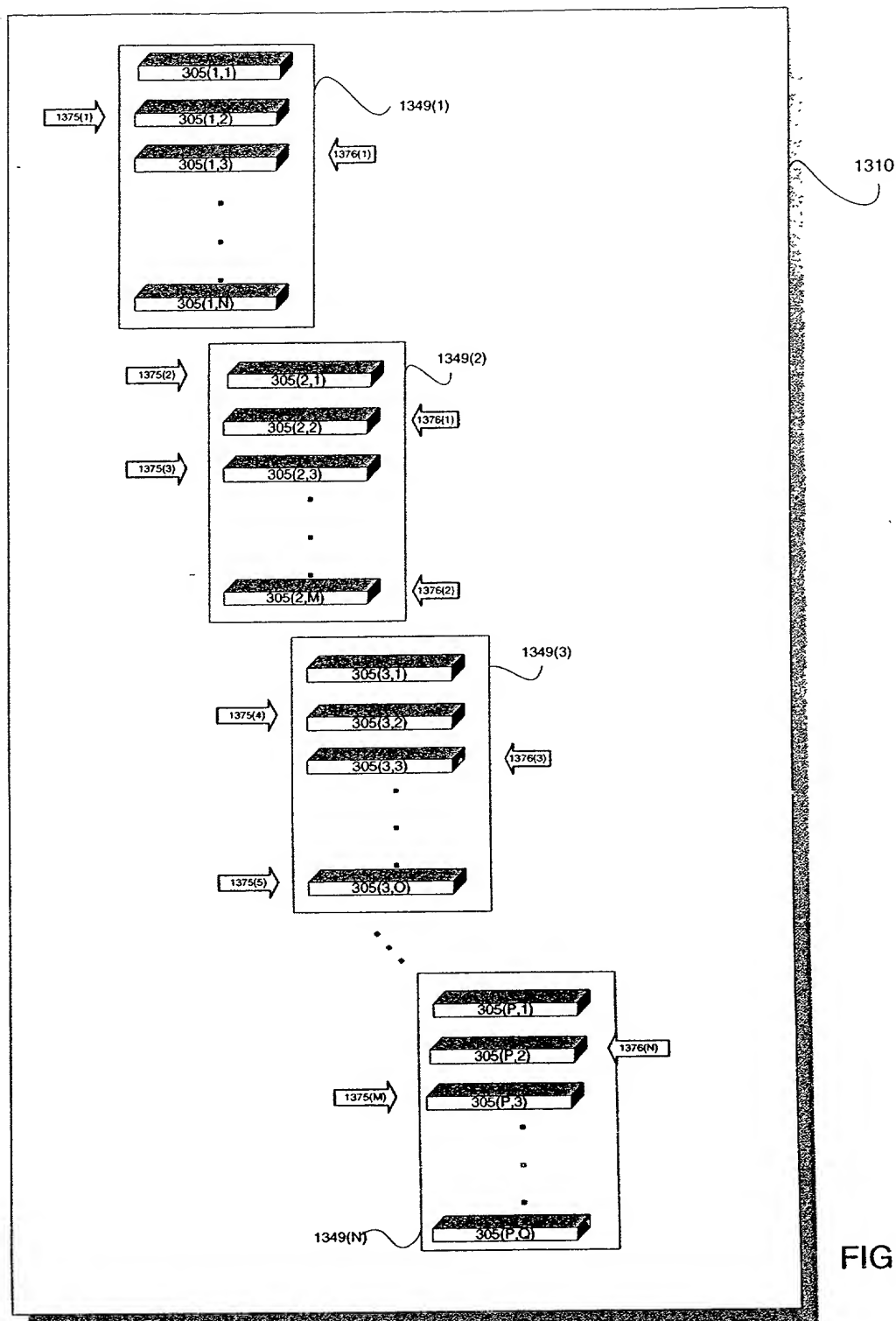


FIG. 13c

20140209 09:55:10

WriteMsgStruct 1330

Member	Type
buffer 1331	char*
buffersize 1332	long
nextMsg 1333	Chanlo..ChannelFileStruct

FIG. 13d

PageStruct 1340

Member	Type
- self 1341	PageStruct*
pagePath 1342	char*
pageIndex 1343	PageIndexStruct*
object 1344	MemHandle
pageData 1345	char*
pageNumber 1346	long
memType 1347	DATA_Q_MEM_TYPE

FIG. 13e

PageIndexStruct 1350

Member	Type
nextReadPosition 1351	unsigned long
nextWritePosition 1352	unsigned long
pagesize 1353	long
pageFullState 1354	long

FIG. 13f

RecordHeaderStruct 1360

Member	Type
commitFlag 1361	char
sequenceNumber 1362	unsigned long
realBufferSize 1363	long
userBufferSize 1364	long

FIG. 13g

MasterPageStruct 1370

Member	Type
self 1371	MaSterPageStruct*
pagePath 1372	char*
_object 1373	MemHandle
masterPageIndex 1374	masterPageIndexStruct*
wlock 1375	LOCK_NODE_PTR
rlock 1376	LOCK_NODE_PTR
readPage 1377	PageStruct*
writePage 1378	PageStruct*
memType 1379	long
maxPages 1379a	long
pageSize 1379b	long
lockState 1379c	LOCK_STATE

FIG. 13h

MasterPageIndexStruct
1380

Member	Type
firstPageNumber 1381	long
lastPageNumber 1382	long
pagesize 1383	long
maxPages 1384	long
readPageState 1385	READ_PAGE_STATE
writePageState 1386	WRITE_PAGE_STATE
recordsWritten 1387	unsigned long
recordsRead 1388	unsigned long

FIG. 13i

2040000" 9365700"

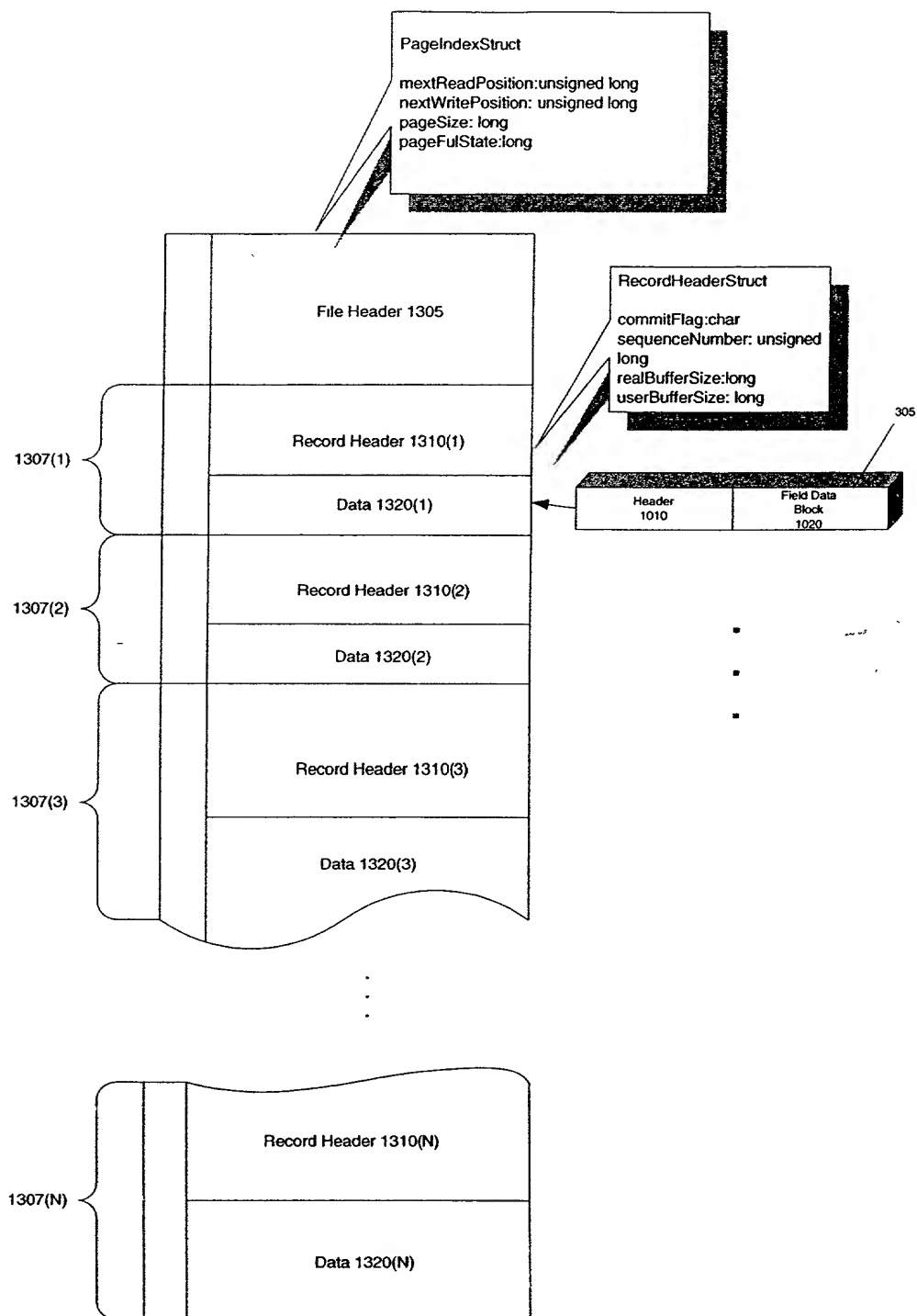


FIG. 13j

20100909 09:55:00

ChanloStruct 1430

Member	Type
self 1431	ChanloStruct*
dictionary 1433	DictStruct*
ChanFileInfo 1435	Chanlo..ChannelFileStruct
message 1437	MsgHandle
channels 1438	Vector*
translist 1439	Vector*

FIG. 14a

ChannelFileStruct 1440

Member	Type
path 1441	char*
access 1443	ChannelFileAccessType
size 1445	long

FIG. 14b

ChannelObjStruct 1450

Member	Type
ChannelName 1451	char*
channelId 1453	DataQHandle
type 1455	MCPChannelType

FIG. 14c

20100909 09555700T

ChannelFileStruct 1460

Member	Type
handle 1461	void*
header 1463	char*
currentObj 1465	void*
lastObj 1467	void*
access 1468	ChannelFileAccessType
lock 1469	LOCK_NODE_PTR

FIG. 14d

ChannelFileHdrStruct 1470

Member	Type
version 1471	long
numRecords 1473	long
checkSum 1475	long

FIG. 14e

ChannelFileObjectStruct 1480

Member	Type
chanInfo 1481	ChanInfoStruct
ChannelName[] 1483	char
ChannelPath[] 1485	char
ChannelOwner[] 1487	char
ChannelPermAuth[] 1489	char

FIG. 14f

204060-99651001

ChanInfoStruct 1480

Member	Type
maxPageSize 1491	Long
maxPages 1493	long
lockState 1495	LOCK_STATE
memType 1497	Data_Q_MEM_TYPE

FIG. 14g

204060-99551001

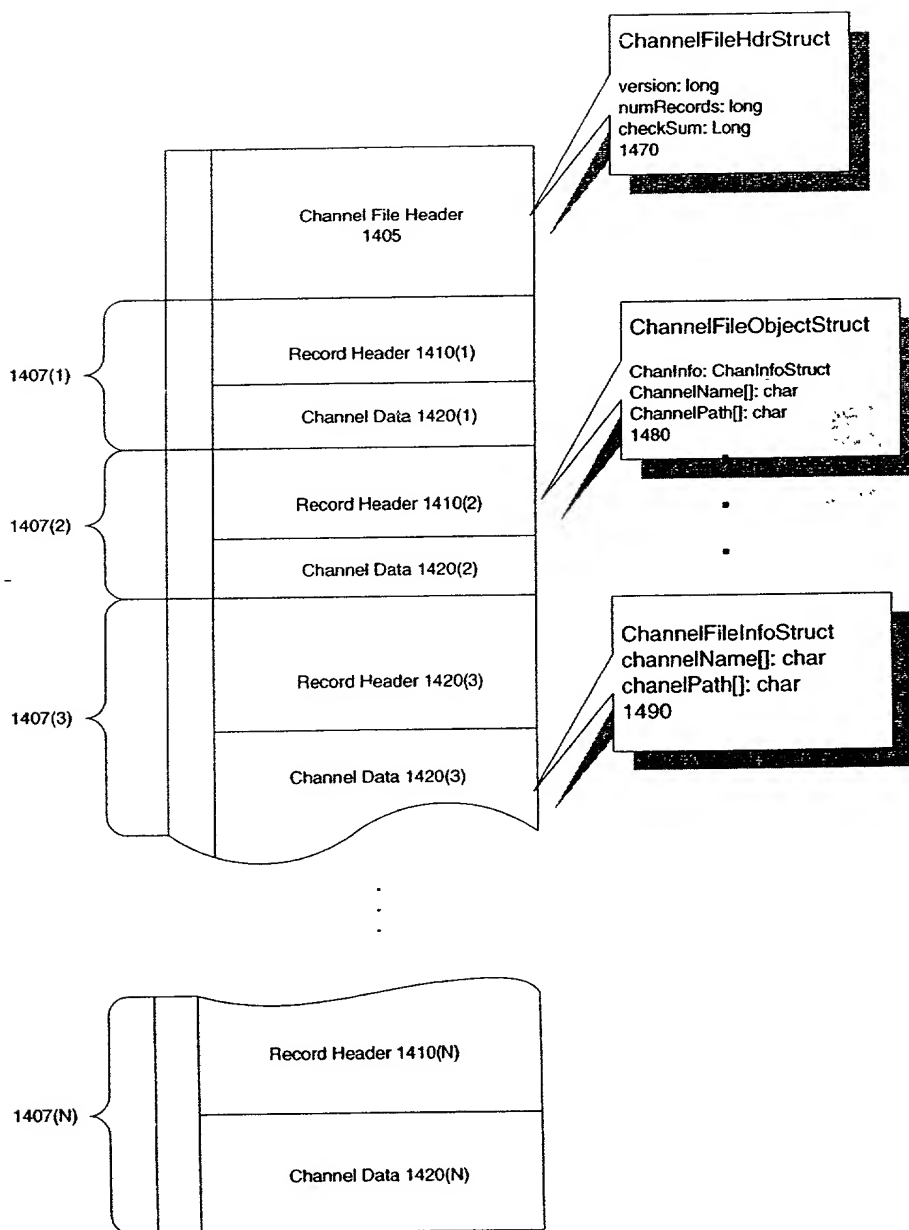


FIG. 14h

2015065-030402

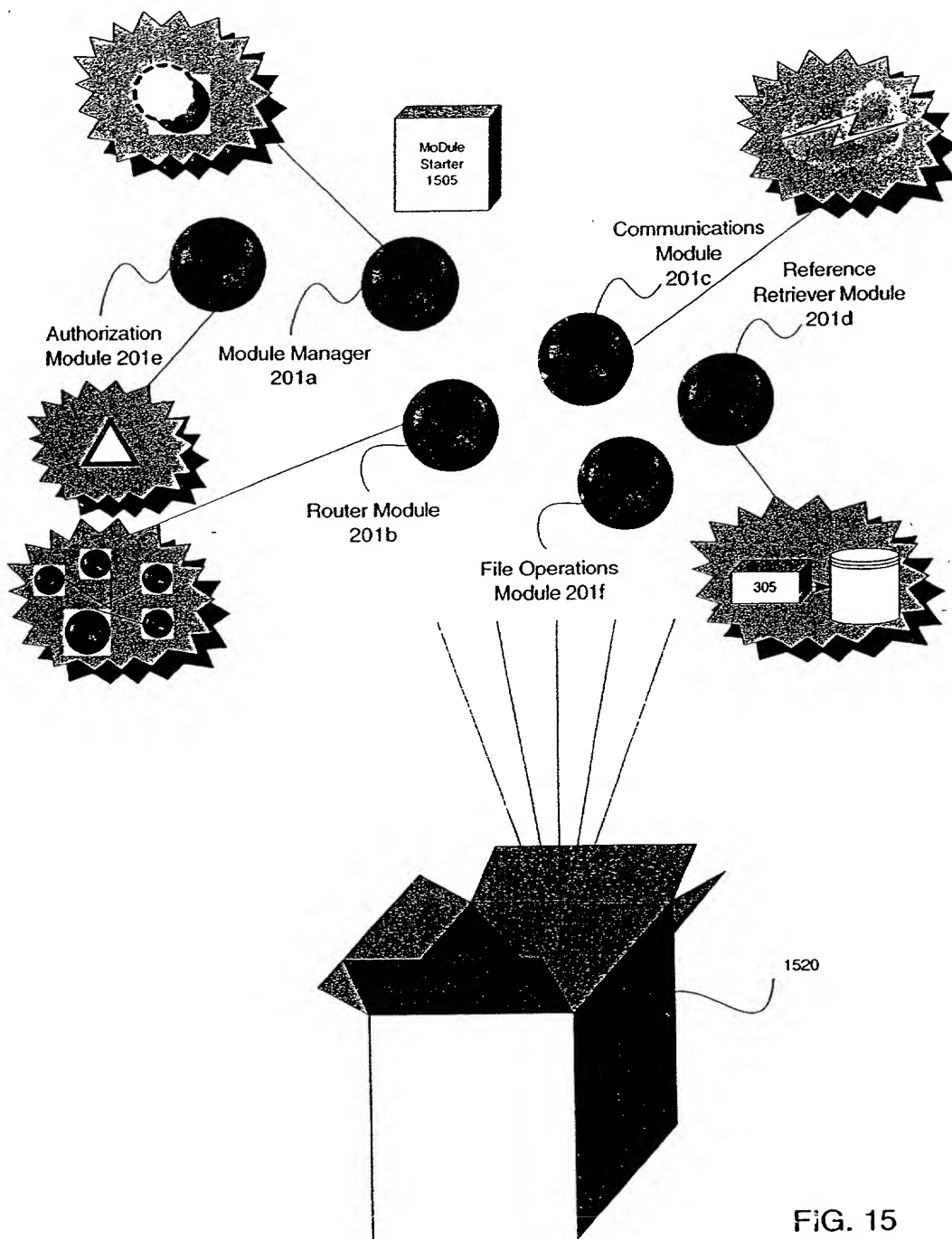


FIG. 15

20100909-030402

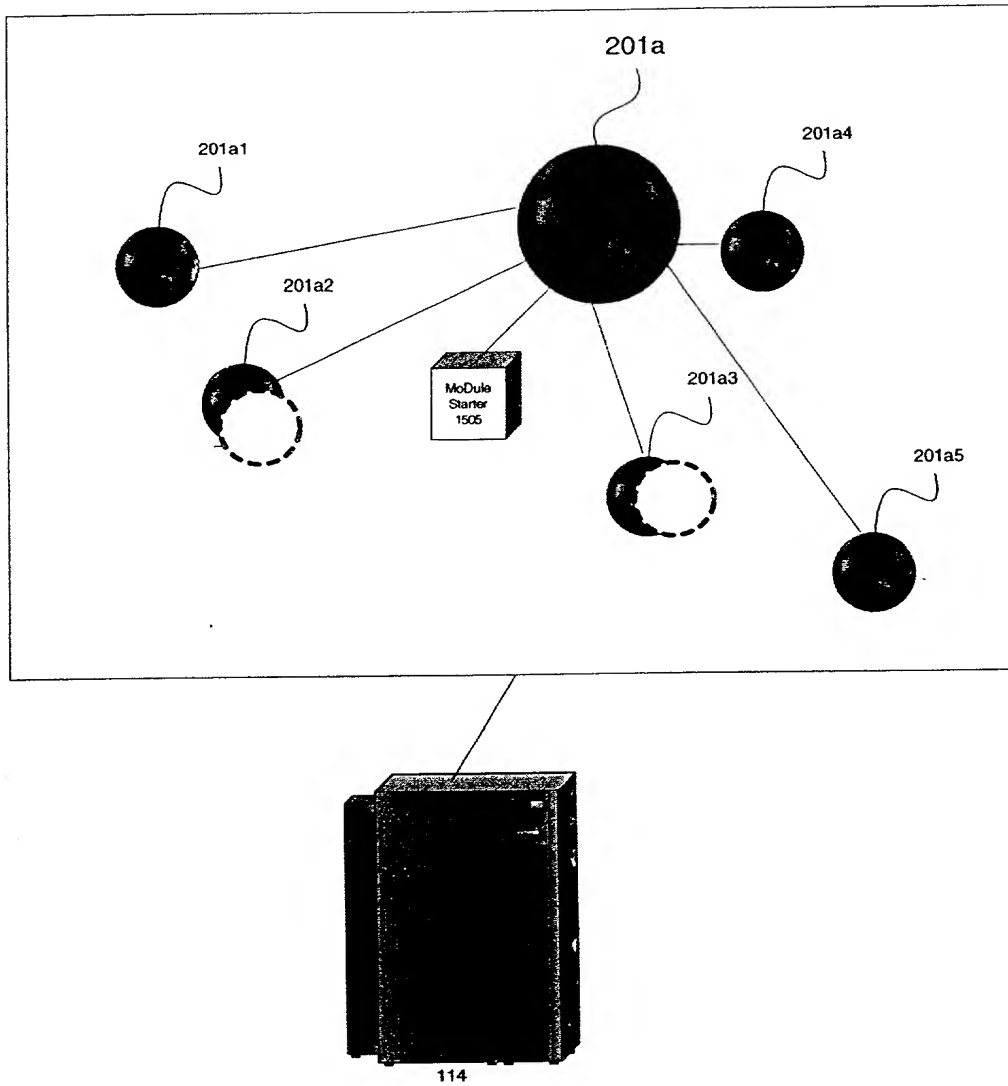


FIG. 16

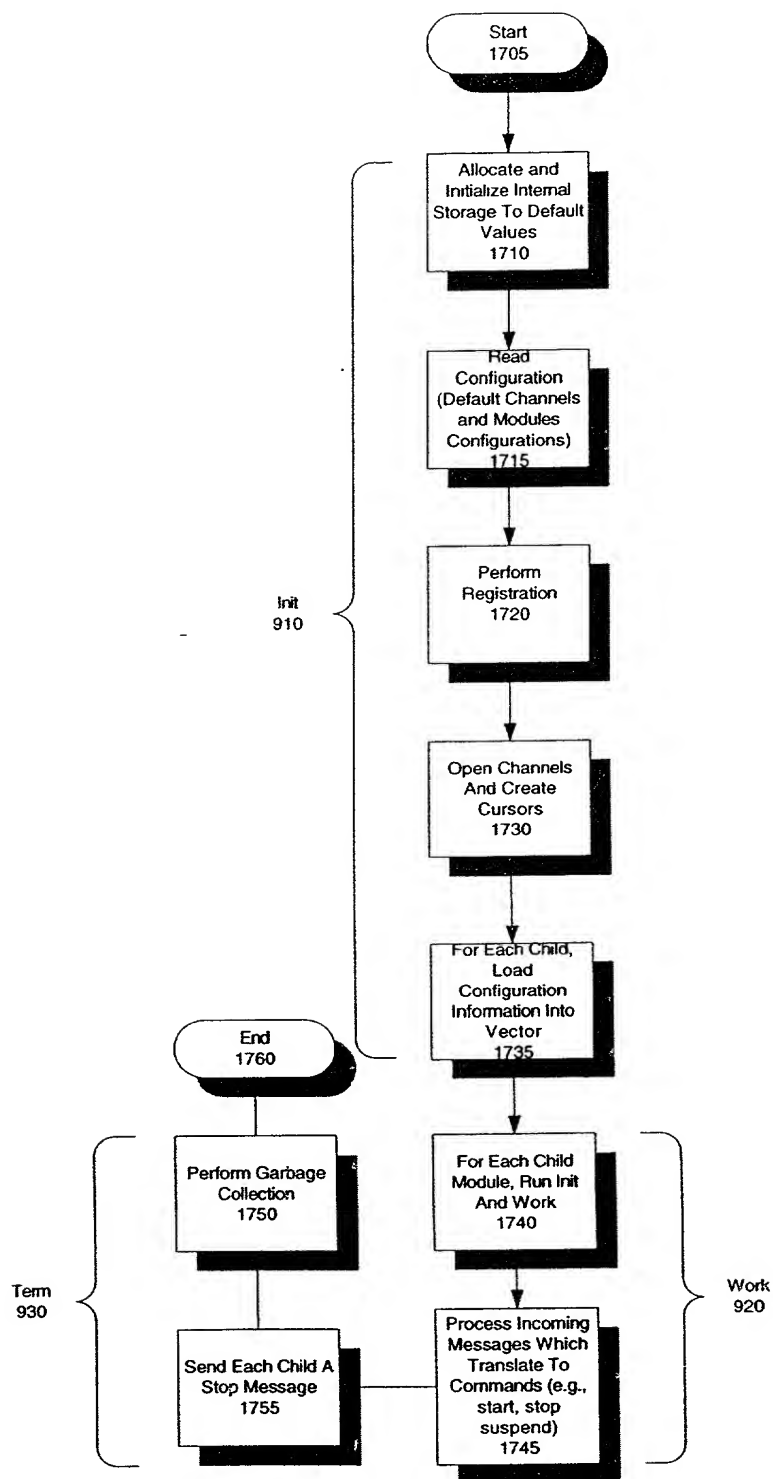
[illegible]

FIG. 17

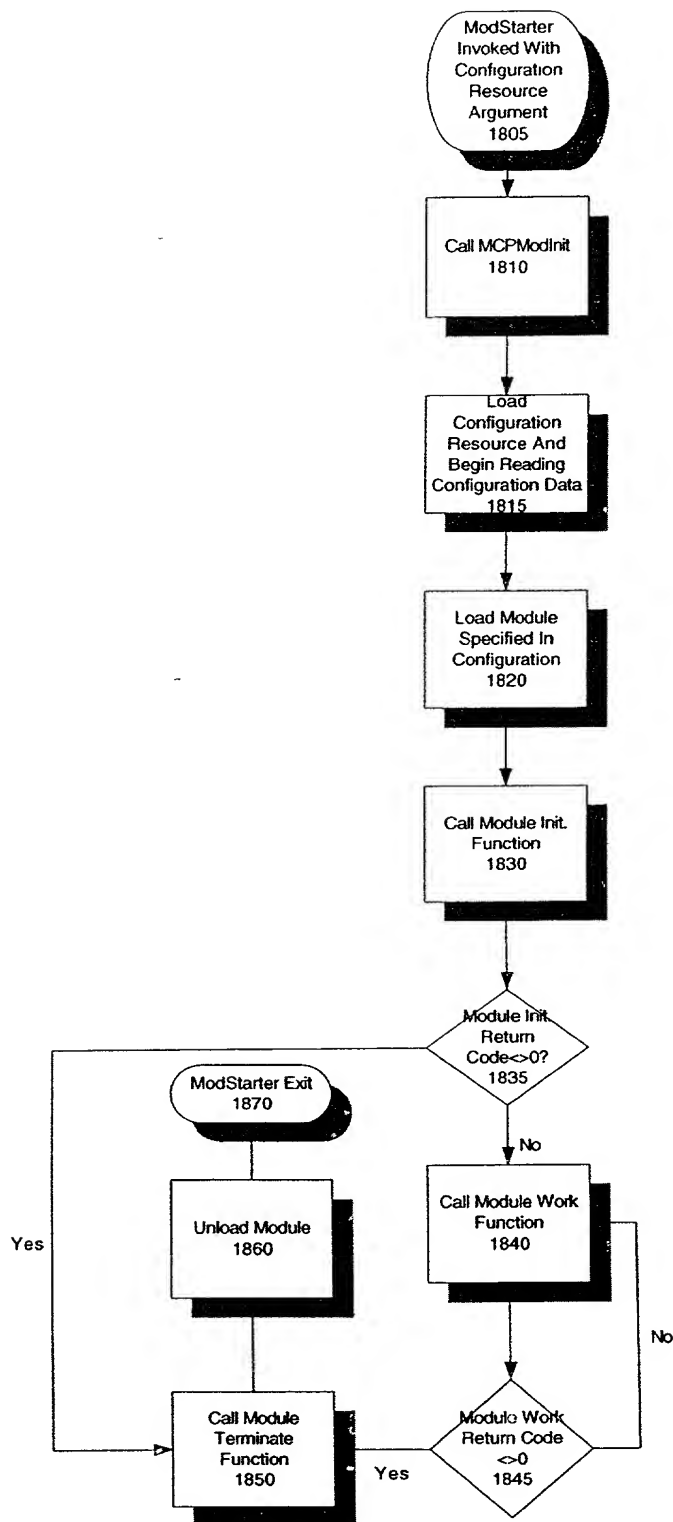


FIG. 18

204000" 9965T00T

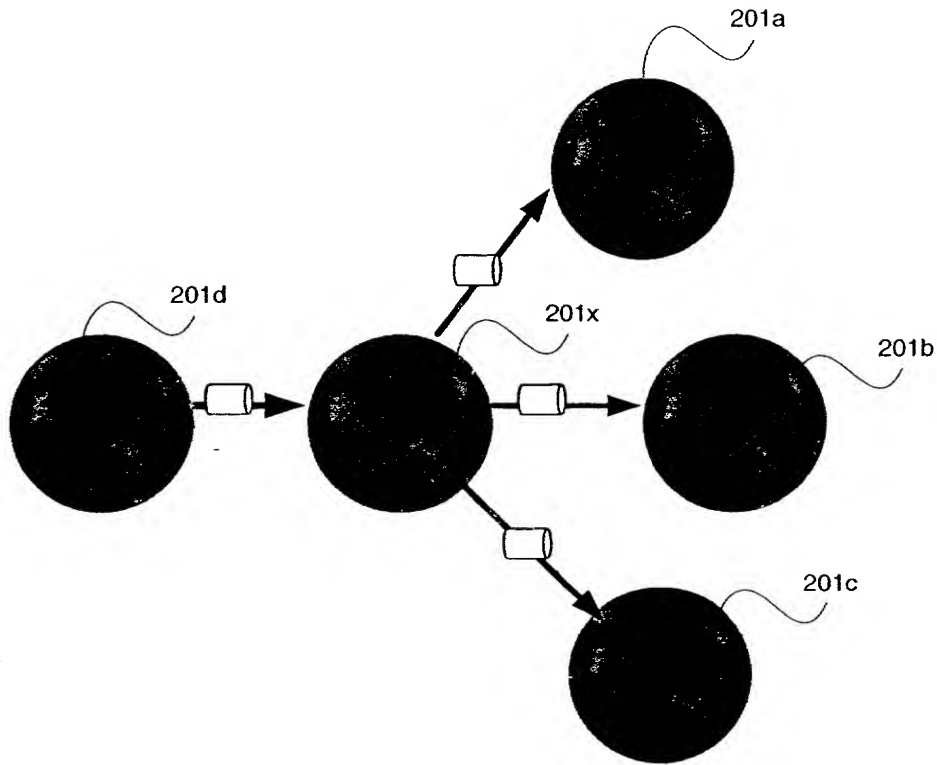


FIG. 19

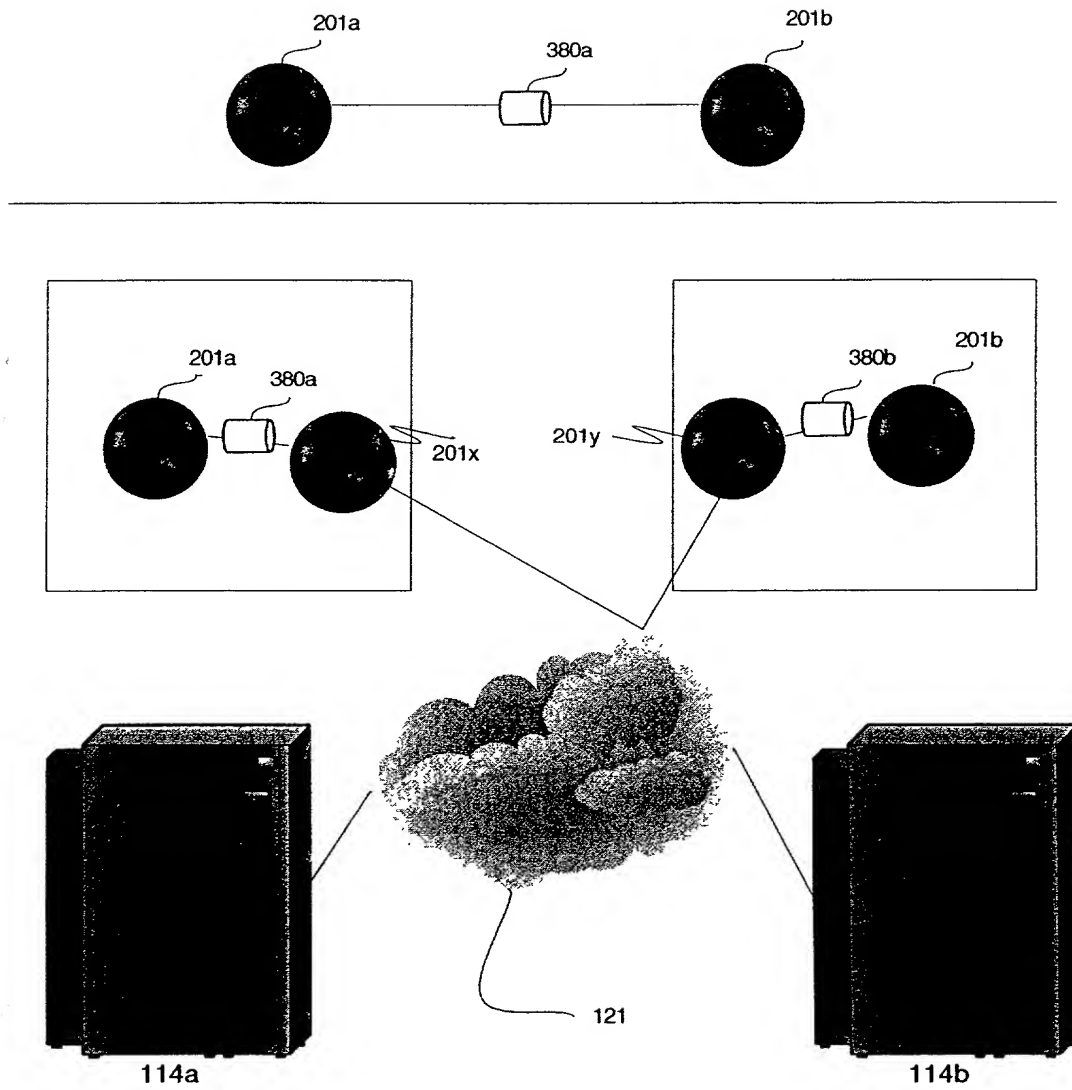


FIG. 20

201DEC-99551001

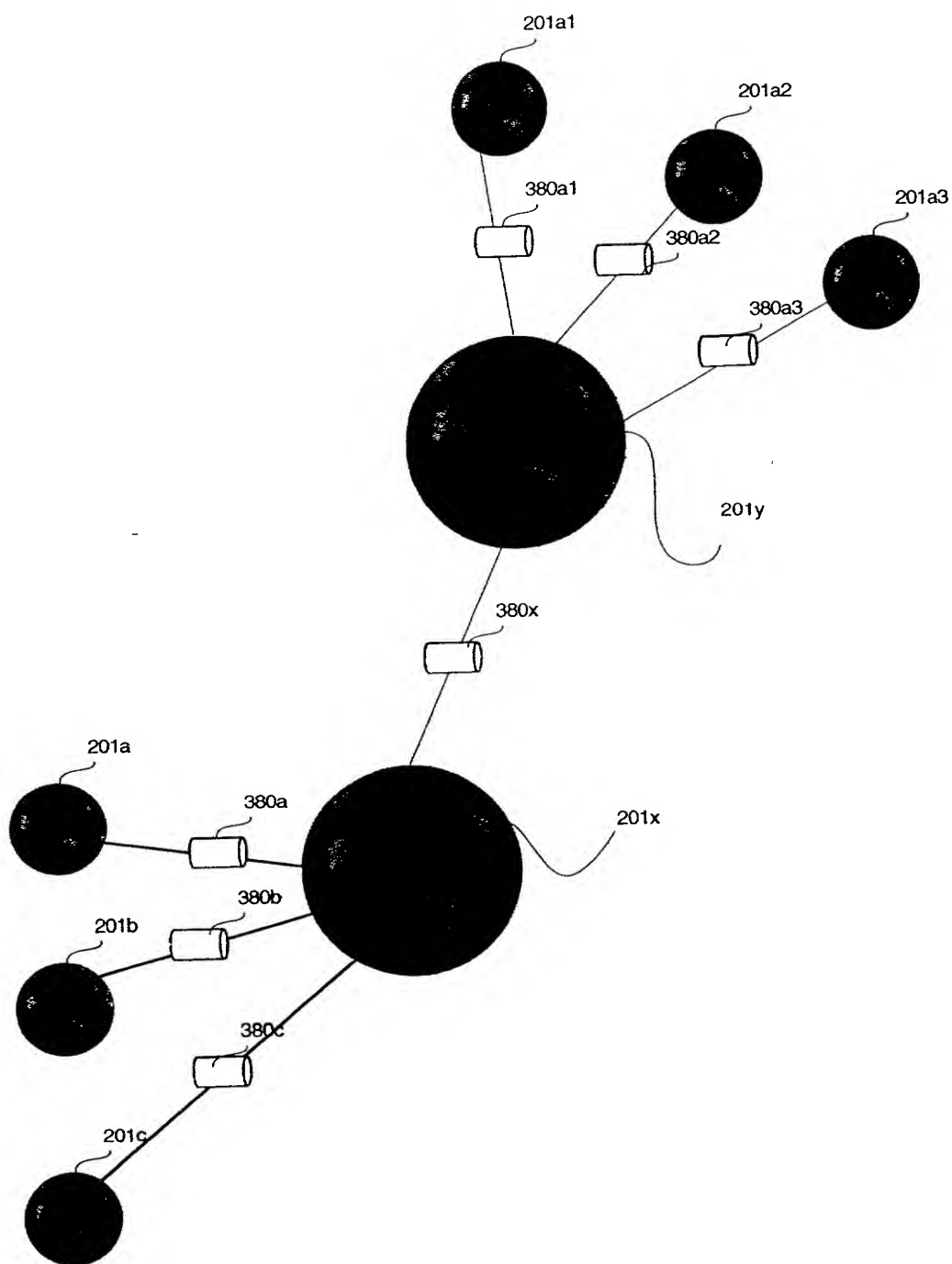


FIG. 21

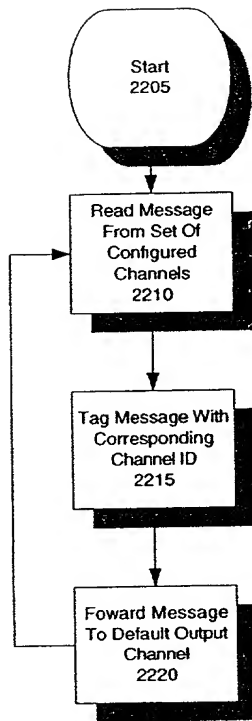


FIG. 22

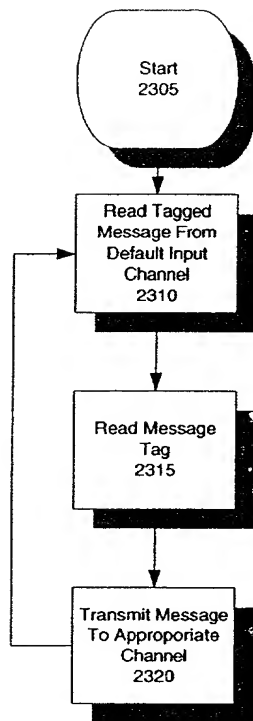


FIG. 23

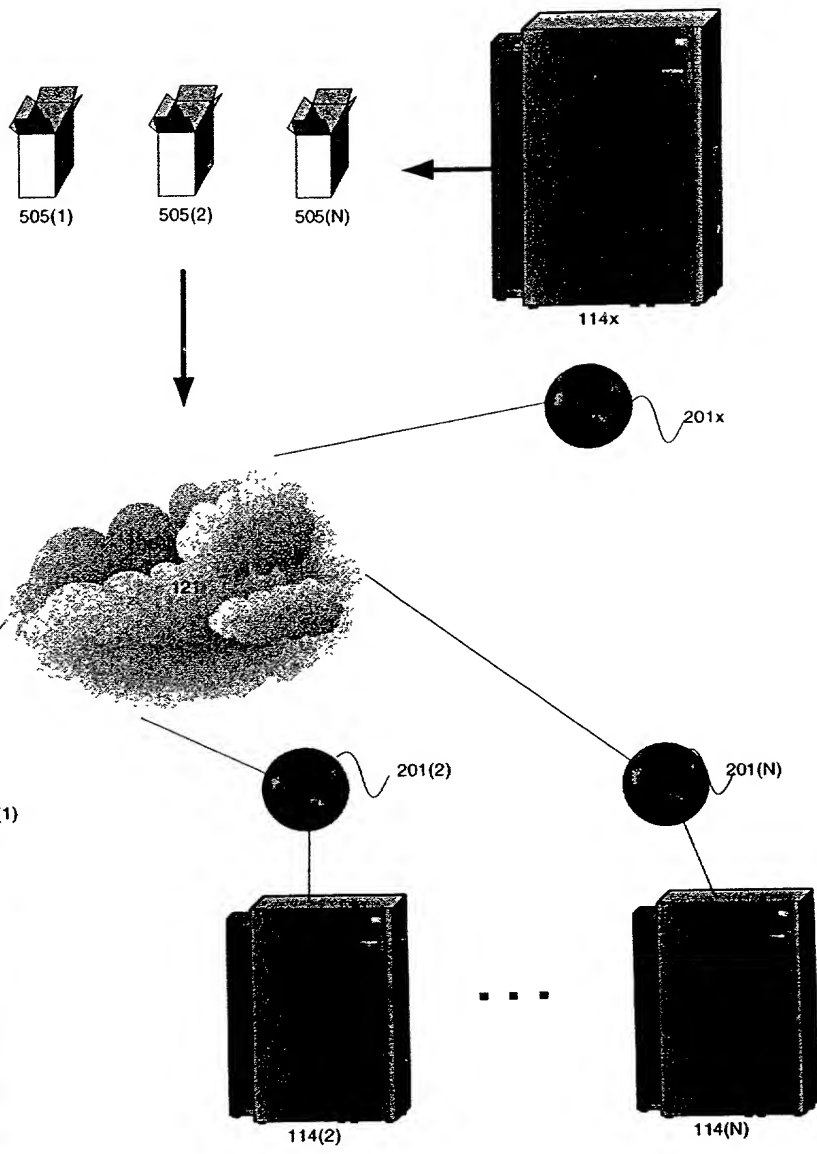


FIG. 24

201506-0340

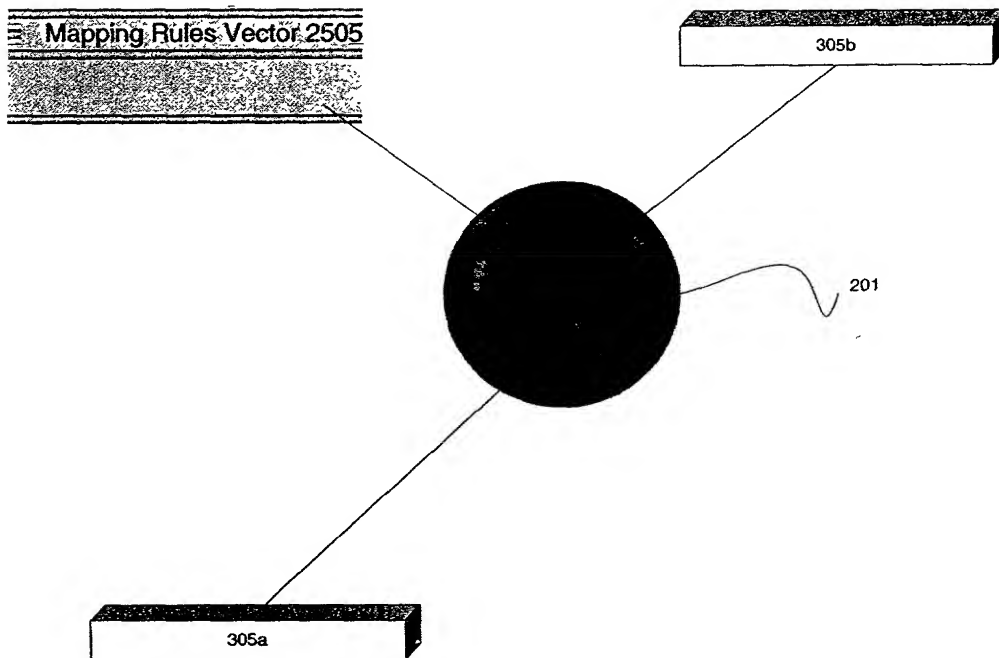


FIG. 25

204000-335500T

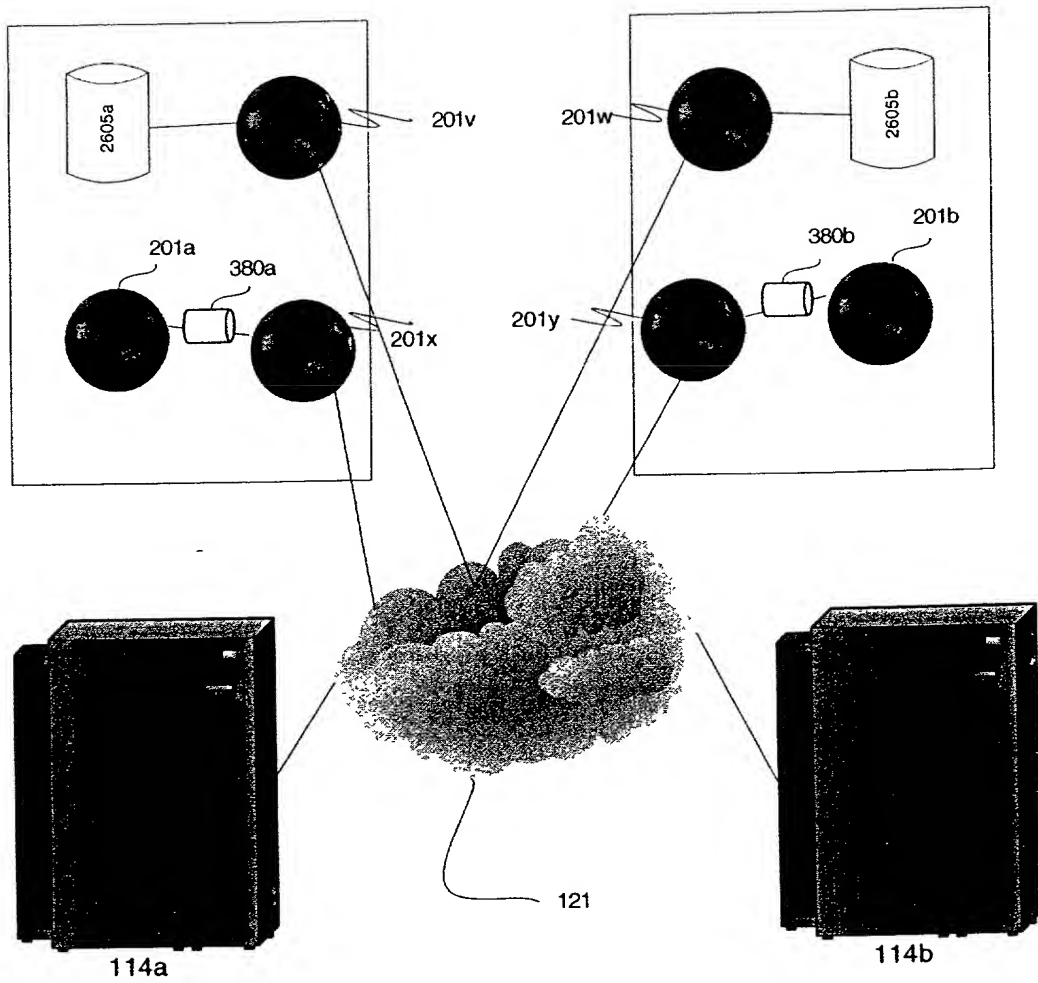


FIG. 26

2040C9 9965T007

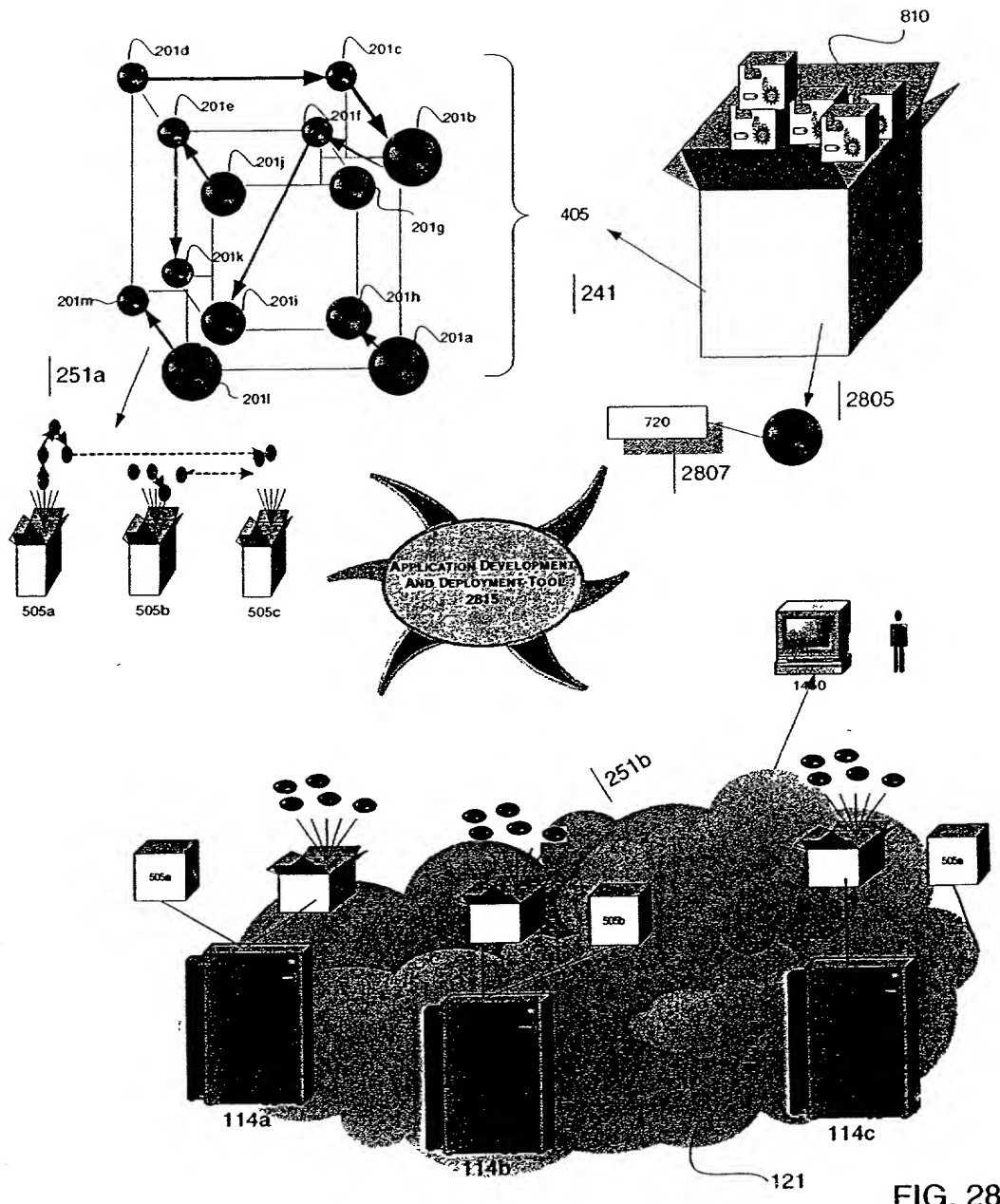


FIG. 28

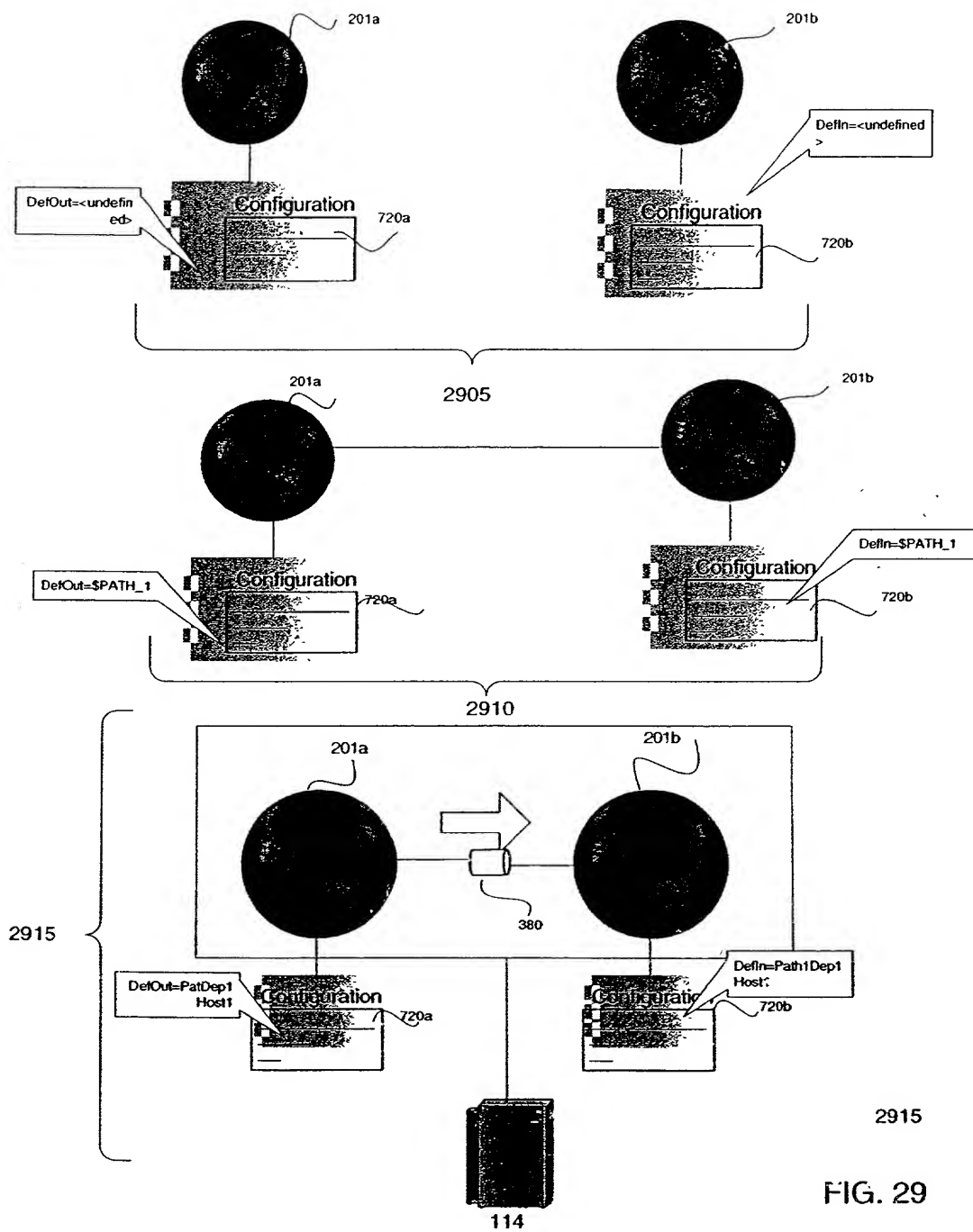


FIG. 29

204020-9955T001

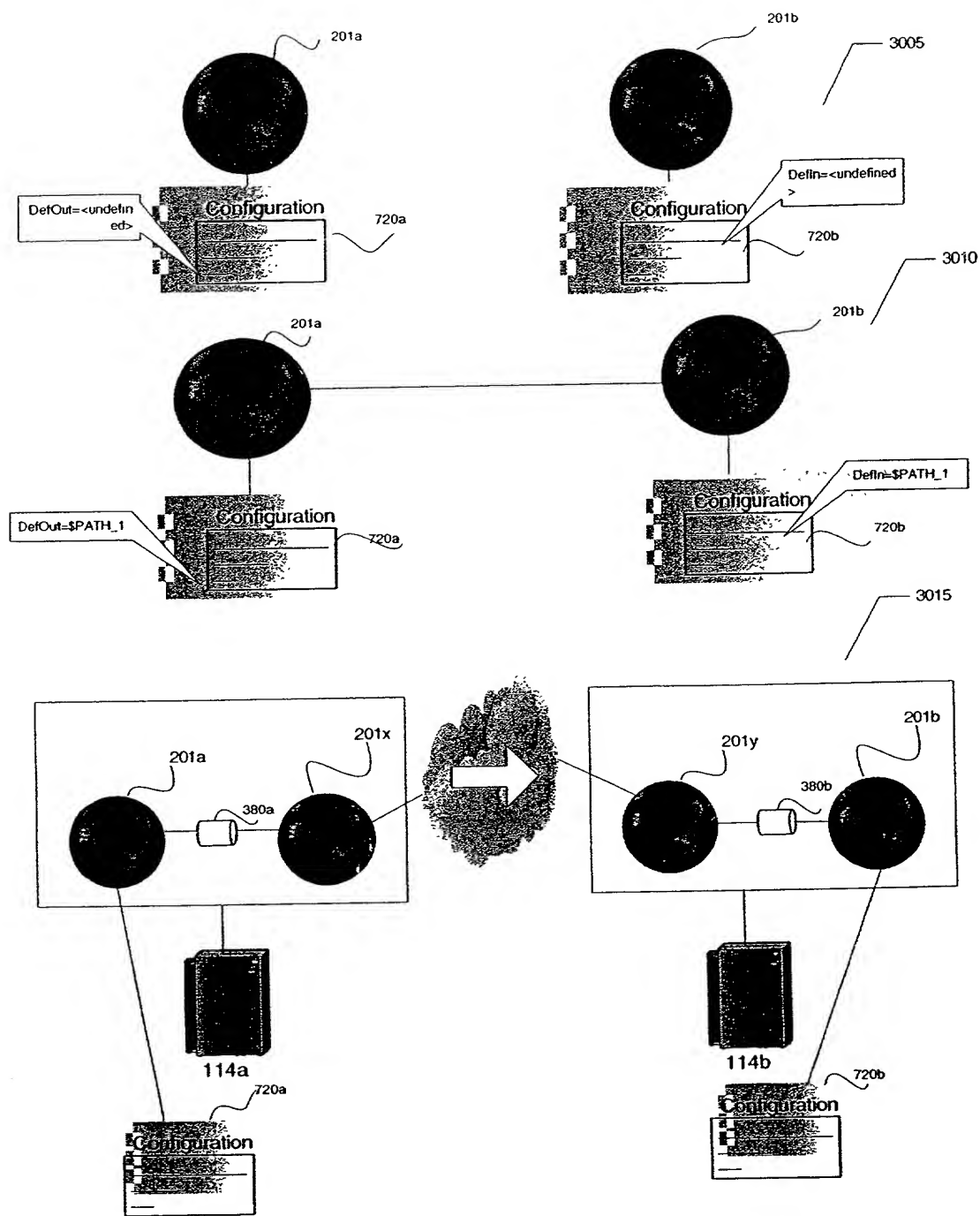


FIG. 30

Figure 1 illustrates a network architecture. At the top, a cloud 121 is connected to two servers 114a and 114b. A detailed view of the network shows nodes 201a, 201b, 201c, 201d, 201w, and 201y connected by links 380a and 380b. A detailed view of a node shows two circular components connected by a link 380a.

FIG. 31

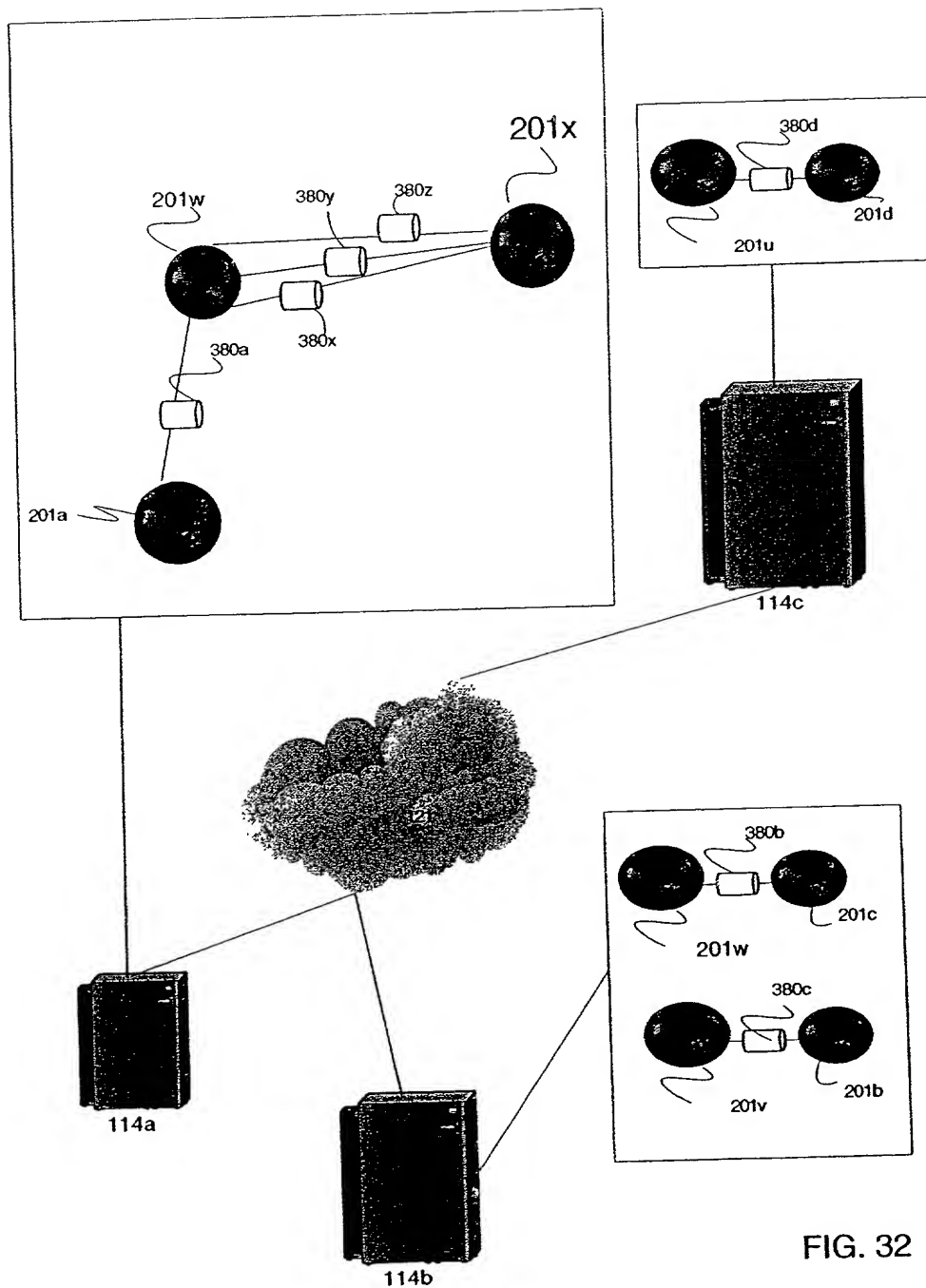


FIG. 32

FIG. 33

FIG. 33

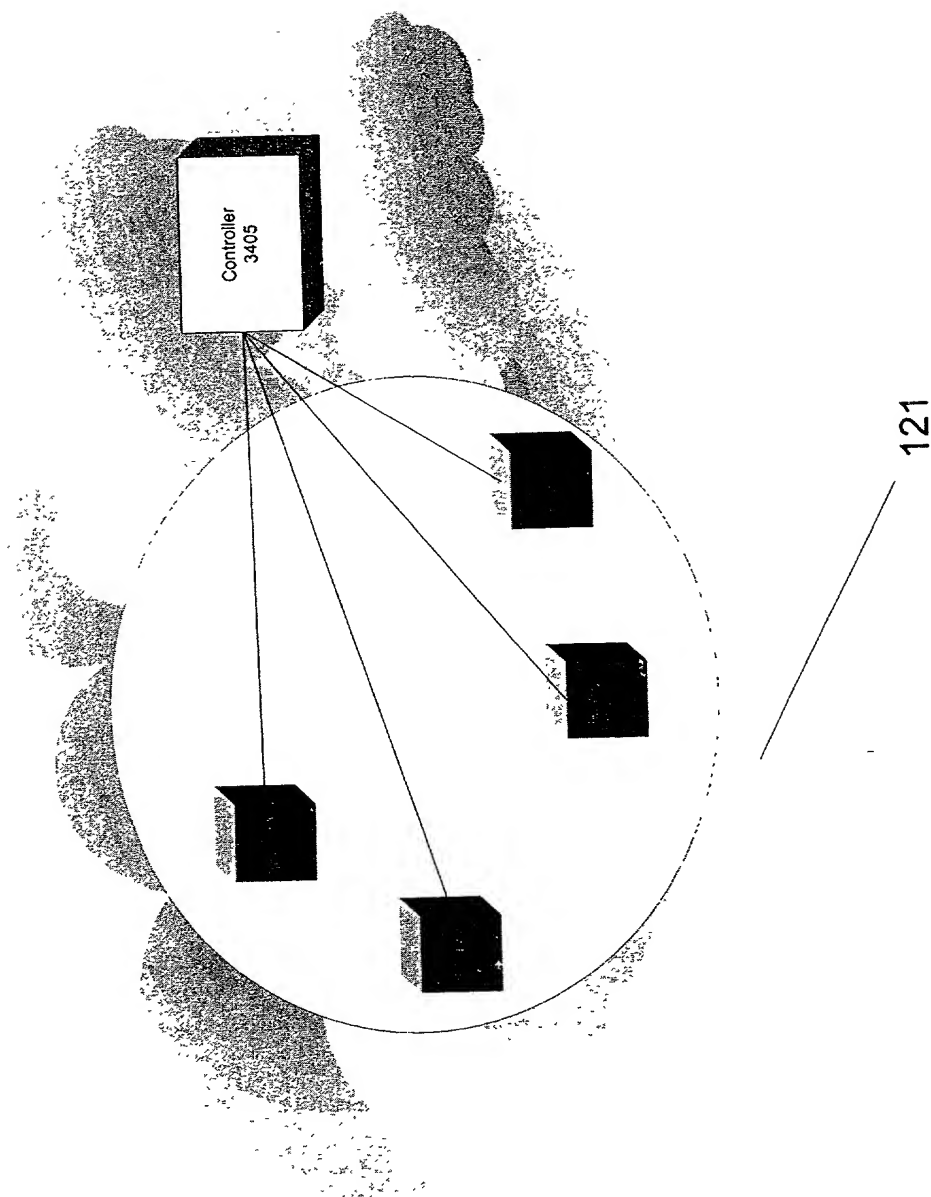


FIG. 34

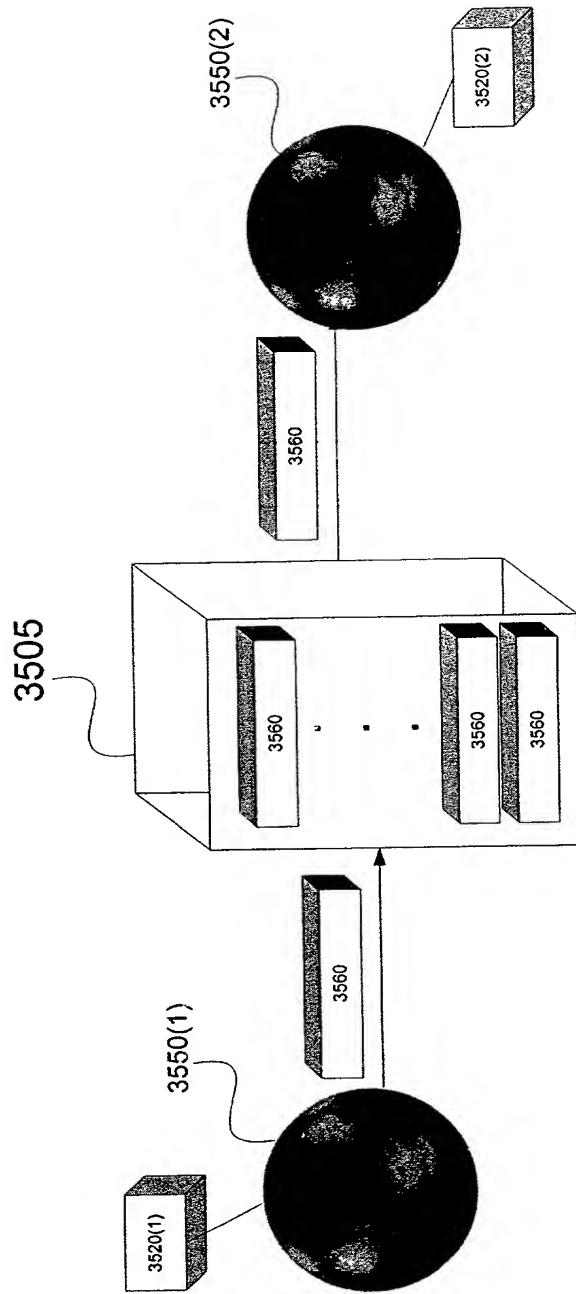


FIG. 36

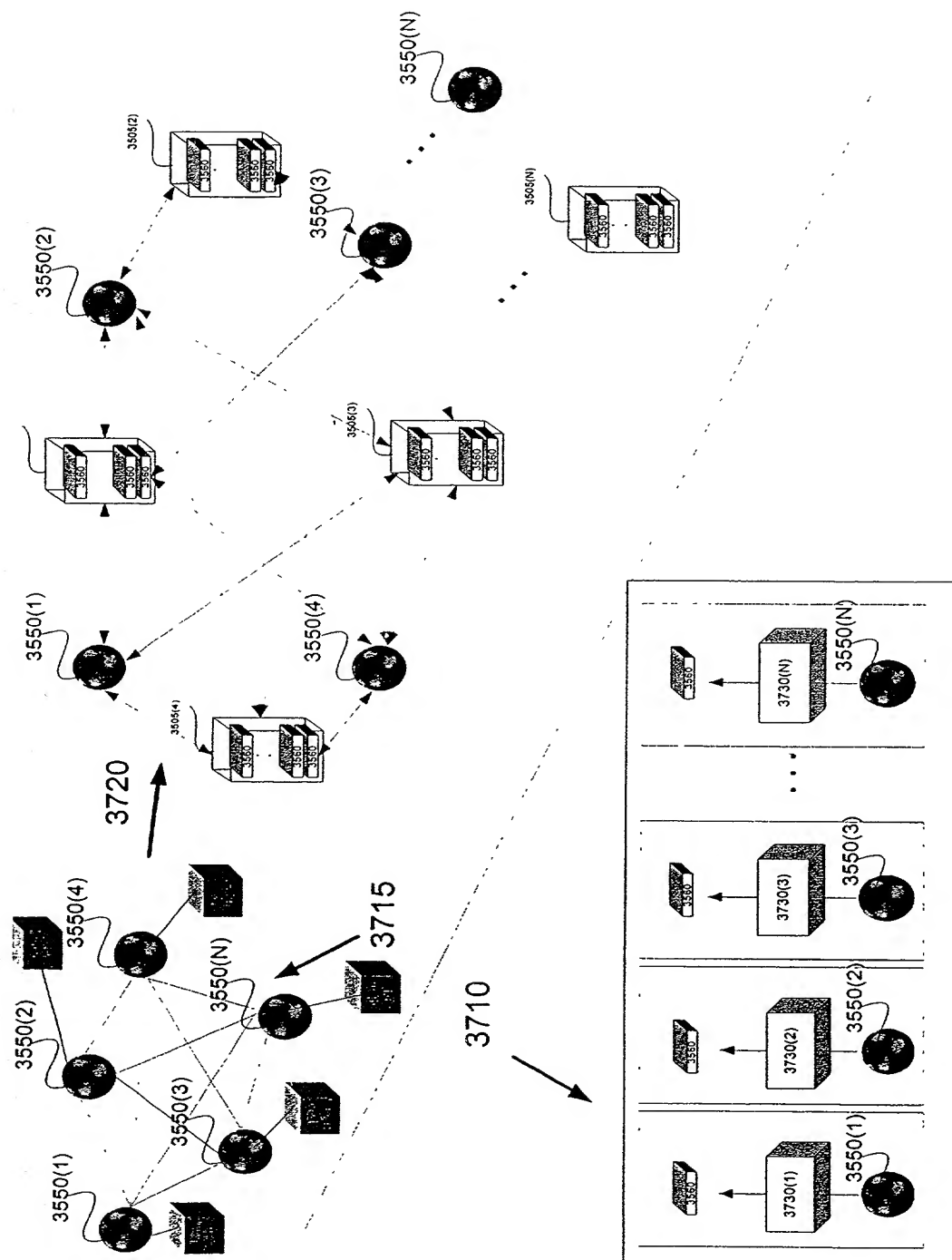


FIG. 37